ORDER NO. EMID0006012C0

A5

Service Manual

Digital Ensemble

SX-PR53 / SX-PR53M

(P) U.S.A.

(PC) Canada

(PY) Mexico

(EX) Norway, Sweden, Denmark, Finland, Spain, Portugal, South Africa

(EF) France

(EZ) Germany

(EG) Switzerland, Italy, Austria, Holland, Belgium

(EB) the United Kingdom

(GN) Australia, New Zealand

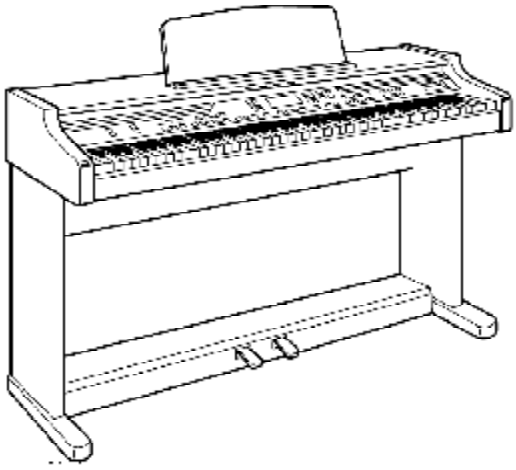
(XS) Malaysia, Singapore

(XT) Taiwan

(X) Columbia, Panama, Chile, Brazil, Philippines, Venezuela, Ecuador

(XA) Argentina

(XD) Saudi Arabia, Hong Kong, Kuwait



SPECIFICATIONS

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KEYBOARD	88 KEYS
SOUND GENERATOR	PCM
MAXIMUM NUMBER OF NOTES PRODUCED SIMULTANEOUSLY	32 NOTES
PLAY STYLE	PIANO MODE, KEYBOARD SPLIT, AUTO PLAY CHORD
SOUNDS	NUMBER OF SOUNDS: 252 SOUNDS + 12 DRUM KITS PIANO: GRAND, UPRIGHT, ELECTRIC, MODERN SOUND GROUP: PIANO & E PIANO, GUITAR, STRINGS, VOCAL, BRASS, FLUTE, BASS, DRUMKITS, MALLET & ORCH PERC, WORLD PERC, ORGAN & ACCORDION, SAX, REED, SYNTH LEAD, SYNTH PAD, PERC & EFFECT, MIXTURES
CONDUCTOR	RIGHT 1, RIGHT 2, LEFT SELECT
PEDAL	SUSTAIN, SOFT/SOSTENUTO
DIGITAL EFFECT	supported
CHORUS	supported
DIGITAL REVERB	supported
TRANSPOSE	G-C-F#
RHYTHMS	128 RHYTHMS × 4 VARIATIONS GROUP: 8 & 16 BEAT, ROCK, SOUL & DISCO, BIG BAND & SWING, COUNTRY & WESTERN, SHOW TIME, LATIN, BALLAND, FUNK & FUSION,GOSPEL & BLUES, JAZZ COMBO, BALL ROOM, MARCH & WALTZ, WORLD
METRONOME	Supported
CONTROLS	MAIN VOLUME, RHYTHM VOLUME, BALANCE/MUTE, START/STOP, INTRO & ENDING 1, INTORO & ENDING 2, FILL IN 1, FILL IN 2, COUNT INTRO, SYNCHRO START, TEMPO, TAP TEMPO, SPLIT POINT, EXECUTE,SOUND SELECT, RHYTHM SELECT
AUTO PLAY CHORD	BASIC, ADVANCED 1, ADVANCED 2, PIANIST, ON BASS, MUSIC STYLE ARRANGER
ONE TOUCH PLAY	Supported (ONE TOUCH PLAY/ MUSIC ATYLE SELECT)
PIANO STYLIST	Supported

TECHNI-CHORD	**Supported**
PANEL MEMORY	**1-5, SET**
SEQUENCER	**16 TRACKS**
	RESOLUTION: 96 PULSES PER QUARTER-NOTE
	STRAGE CAPACITY: APPROX.30000 NOTES (10 SONGS MAX.)
	INPUT MODES: EASY RECORD, REALTIME RECORD, STEP RECORD (CHORD, RHYTHM)
	FUNCTIONS: TRACK ASSIGN, EDIT,SONG SELECT/NAME, MEDLEY
COMPOSER	**5 PARTS: BASS, ACCOMP 1, ACCOMP 2, ACCOMP 3, DRUMS**
	STRAGE CAPACITY: APPROX.10000 NOTES
	INPUT MODES: REALTIME RECORD
	FUNCTIONS: COMPOSER CHORD MAP, MODE SELECT, PATTERN COPY, LOAD SINGLE COMPOSERPATTERN
	MEMORY: 3 BANKS × 10 (VARIATION 1-4, INTRO 1, 2, FILLIN 1, 2, ENDING 1,2)
MEMORY & CONTROL	**INITIAL, DISK LOAD, DISK SAVE, DIRECT PLAY, MEDLEY, PEDAL SETTING, FLOPPY DISK FORMAT, CONTRAST**
SOUND SETTING	**PART SETTING, TOUCH & TUNE, KEY SCALING, LEFT HOLD, TECHNI-CHORD, REVERB, CHORUS**
MIDI	**CHANNEL, CONTROL MESSAGE, PART SETTING, REALTIME MESSAGE, COMMON SET, MIDI PRESETS, IN/OUT SET, GM MODE**
EXTERNAL MEMORY	**BUILT-IN 3.5 inch FLOPPY DISK DRIVE FOR 2HD (1.44 MB), 2DD (720 KB)**
DISPLAY	**LCD**
	PAGE, BALANCE, EXIT, DISPLAY HOLD, OTHER PARTS/ TRACKS
DEMO	**Supported**
TERMINALS	**PHONES, LINE OUT (R/R+L,L), AUX IN (R/R+L,L), MIDI (IN, OUT), PEDAL IN**
OUTPUT	**40 W × 2**
SPEAKERS	**14 cm × 2**

POWER REQUIREMENT	**110 W** **AC120/220/230-240V 50/60 Hz** **AC120V 60 Hz (NORTH AMERICA AND MEXICO)** **AC230-240 50/60 Hz (EUROPE, AUSTRALIA AND NEW ZEALAND)**
DIMENSIONS (W×H×D)	**SX-PR53:** **139.7 cm × 103.6 cm × 56.9 cm (55” × 40-25/32” x 22-13/32”)** **SX-PR53M:** **139.7 cm × 104.2 cm × 56.9cm (55” × 41-1/32” x 22-13/32”)**
NET WEIGHT	**SX-PR53:** **51 kg (112.4 lbs.)** **SX-PR53M:** **52 kg (114.6 lbs.)**
ACCESSORIES	**AC CORD, MUSIC STAND**

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1. WARNING

To prevent the risk of fire, smoke, or electrical shock and to ensure safe operation, please be sure to follow the safety guidelines below.

1. **At places where special caution is required, the necessary safety precautions are clearly labeled or printed, for example, on the cabinet, or on the part concerned. Please follow these safety precautions, and also those listed in the Owner'sManual.**
2. **Parts which have a ⚠ mark in the circuit diagram or in the parts list are essential for safety. When replacing these parts, be sure to use only the specified parts.**
3. **Use the specified types for internal wiring (double-insulated wiring, etc.).**
4. **When replacing parts on the AC primary side (power transformer, electric switch, electrical cord, noise-prevention condenser, etc.), wind the lead wire and secure it by soldering.**

5. Do not let the wiring come into contact with heat-emitting devices (fuse resistor, radiator plate, etc.).
6. When replacing the wiring, make sure that it is not in contact with the unfinished or rough edge of a part.
7. When replacing the power cord (except for the plug-in type), tug it from various directions to confirm that it does not slip out of place.
8. Spacing
   If soldering was done on the AC primary circuit, confirm that the interval between the soldered terminals or between the terminal and surrounding metallic parts is at least the minimum required (between the primary circuit and the chassis: atleast 6.5 mm; between primary circuit terminals: at least 4.0 mm; between primary circuit terminals and secondary circuit terminals: at least 6.5 mm.).

2. SAFETY PRECAUTION

2.1. Safety precaution

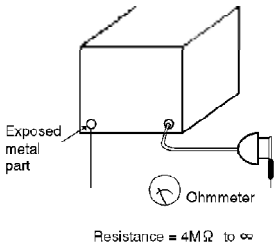
1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only the manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

2.2. Insulation resistance test

1. Unplug the power cord and short the prongs of the plug with a jumper wire.
2. Turn on the power switch.

3. **Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screw heads, connectors, control shafts, handle brackets, etc. Measurements should range from 4 M Ohm to infinity for allexposed parts.**

Figure-1



3. OWNERS MANUAL

MIDI Implementation Chart

Digital Ensemble [SX-PR53] (Transmitted)

Function		RIGHT1,2,LEFT, PART4~15	PART16	ACMP1	ACMP2,3	BASS	DRUMS	CHORD	CONTROL	Remarks
Basic Channel	Default	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16	memorized
	Changed	1-16	1-16	1-16	1-16	1-16	1-16	1-16	1-16	
Mode	Default	3	3	3	3	3	3	3	3	OMNI OFF,POLY MODE
	Messages	×	×	×	×	×	×	×	×	
	Altered	–	–	–	–	–	–	–		
Note Number		0-119	0-119	0-119	0-119	0-119	0-119	0-119	–	Changes depending on the position of the transpose control,octave shift,and drums type.
	True voice	–	–	–	–	–	–	–	–	
Velocity	Note ON	○	○	○	○	○	○	○	–	
	Note OFF	×	×	×	×	×	×	×	–	
After Touch	Key's	×	×	×	×	×	×	×	–	Transmitted during SEQUENCER playback.
	Ch's	○×*	×	×	×	×	×	×	–	
Pitch Bend		○×*	×	○×*	○×*	○×*	×	○×*	×	Transmitted during SEQUENCER playback and during rhythm performance.
Control Change	0,32	○×*	○×*	○×*	○×*	○×*	○×*	○×*	×	bank select MSB, LSB
	1	○×*	×	○×*	○×*	○×*	×	○×*	×	modulation
	6,38	○×*	×	×	×	×	×	×	×	data entry MSB, LSB
	7	○×*	○×*	○×*	○×*	○×*	○×*	○×*	×	volume
	10	○×*	×	○×*	○×*	○×*	×	×	×	panpot
	11	○×*	○×*	×	×	×	×	×	×	expression
	64	○×*	×	○×*	○×*	○×*	×	×	×	sustain
	66	○	×	×	×	×	×	×	×	sostenuto
	67	○	×	×	×	×	×	×	×	soft
	80	×	×	○×*	×	×	×	×	×	auto play chord
	82	×	×	×	×	×	○×*	×	×	intro, fill in, ending
	91	○×*	○×*	○×*	○×*	○×*	○×*	○×*	○×*	reverb
	93	○×*	○×*	×	×	×	×	×	×	Chorus
	94	○×*	×	○×*	○×*	○×*	×	○×*	×	digital effect
	100,101	○×*	×	×	×	×	×	×	×	RPN LSB, MSB
	120	○	○	×	×	×	×	×	×	all sound off
	121	○×*	○×*	×	×	×	×	×	×	reset all cotrollers
Prog Change		○×*	○×*	○×*	○×*	○×*	○×*	○×*	×	Changes depending on program change mode and prog.cng to p.mem.
	True #	–	–	–	–	–	–	–	–	
System exclusive		○								General MIDI on/off, tempo
System common	Song Pos	○×*								
	Song Sel	○×* (0-19)								
	Tune	×								
System Real Time	Clock	○								
	Commands	○×*								start/stop,continue
Aux Messages	Local ON/ OFF	×	×	×	×	×	×	×	–	
	All notes OFF	×	×	×	×	×	×	×	–	
	Active Sense	○								
	Reset	×								
Notes		○×*……Whether or not the data for each of these items is transmitted can be set.								

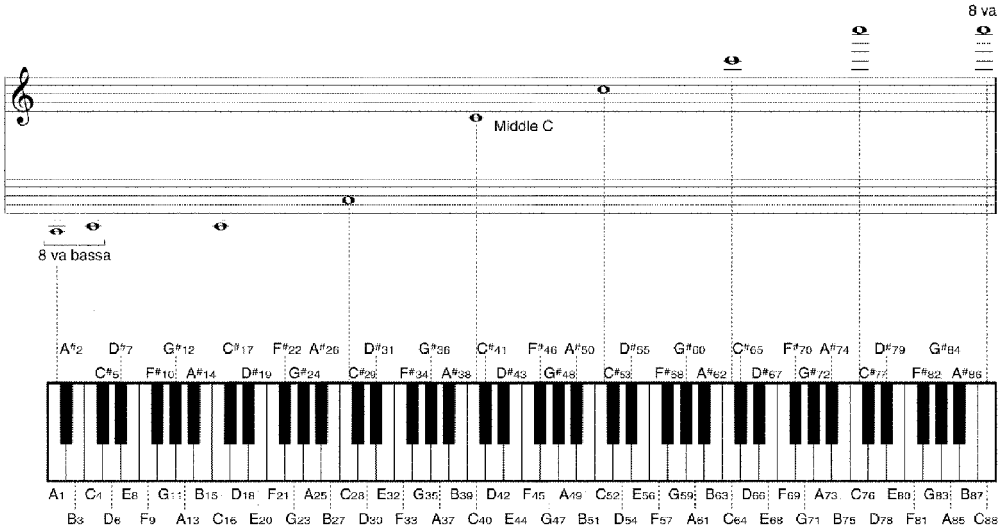
Mode 1: OMNI ON, POLY Mode 2: OMNI ON, MONO ○:Yes

Mode 3: OMNI OFF, POLY Mode 4: OMNI OFF, MONO ×:No

4. KEYBOARD RANGES

This keyboard features Touch Response, by which you control the volume by playing the keys harder or softer.

Figure-2



5. PARTS LOCATION

Figure-3

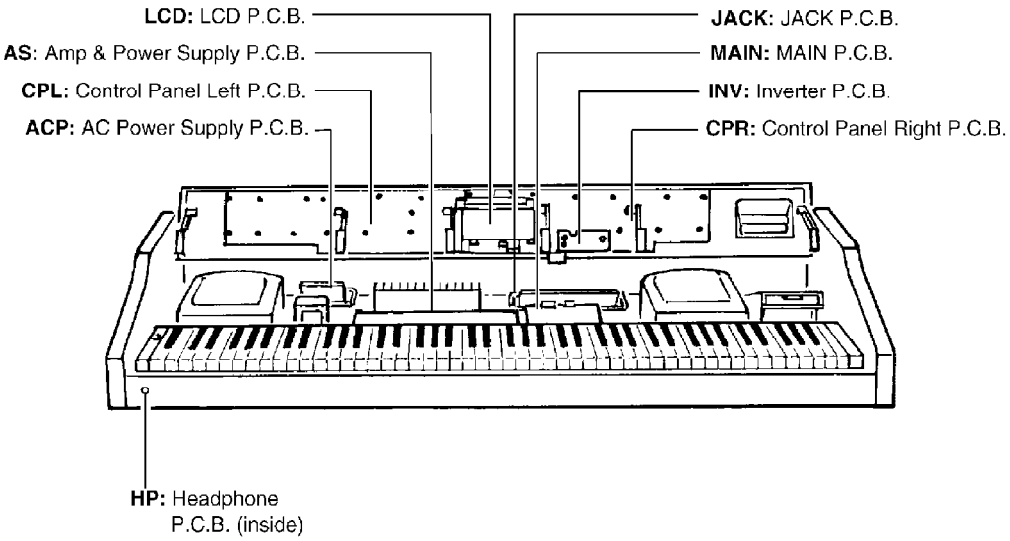
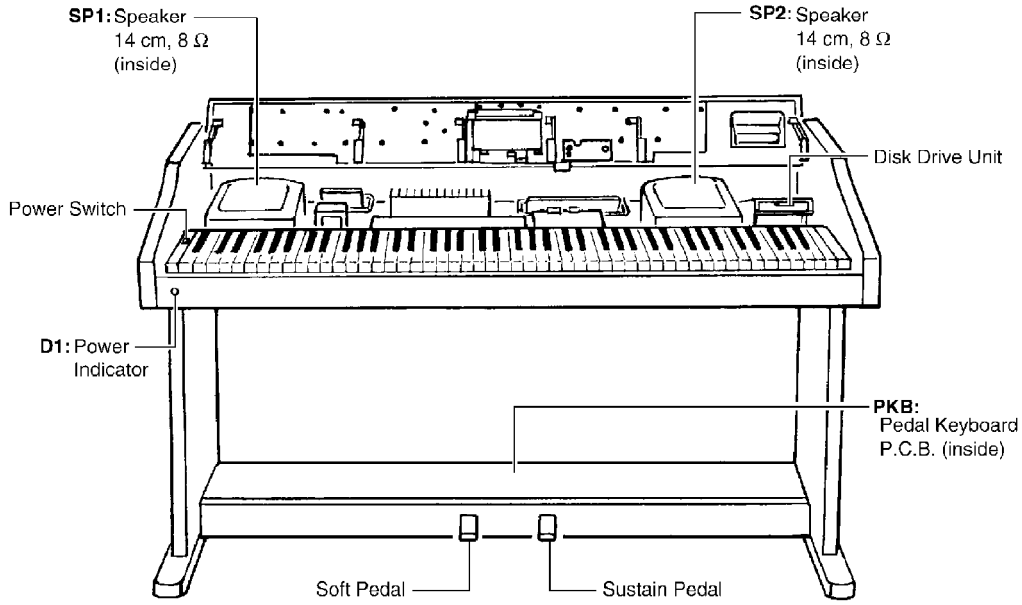


Figure-4



6. DISASSEMBLY INSTRUCTIONS

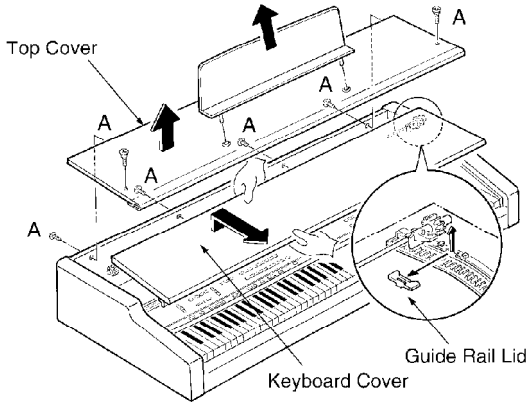
6.1. Removing the top cover

1. Remove the top cover mounting screws (A × 6 pcs.) as shown in Figure-5 .
2. Lift up the top cover (as shown by the arrows).

6.2. Removing the keyboard cover

1. Remove the top cover (see step "Removing the top cover ").
2. Release the spring from the shaft.
3. Remove the guide rail lids from the guide rails.
4. Match the gears of the keyboard cover with the notches in the guide rail, and lift up the keyboard cover as shown in Figure-5 .

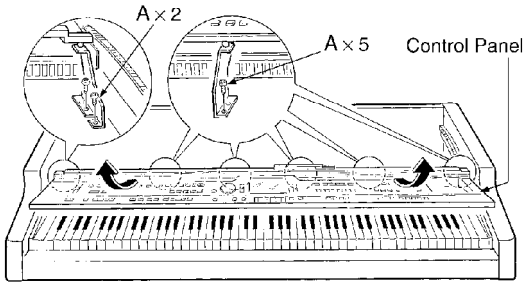
Figure-5



6.3. Removing the control panel

1. Remove the keyboard cover (see step "Removing the keyboard cover ").
2. Remove the control panel mounting screws (A × 7 pcs.) as shown in Figure-6 .
3. Slide the control panel forward and pull out (as shown by the arrows).

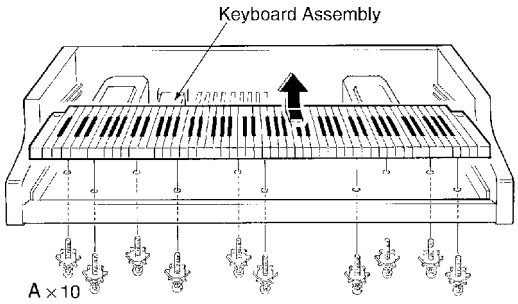
Figure-6



6.4. Removing the keyboard assembly

1. Remove the control panel (see step "Removing the control panel).
2. Remove the keyboard assembly mounting screws located on the bottom of the cabinet (A × 10 pcs.) as shown in Figure-7 .

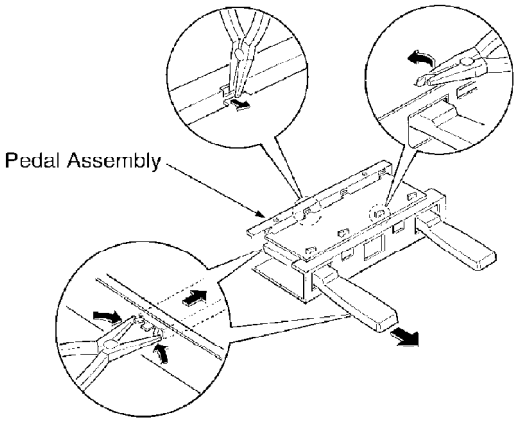
Figure-7



6.5. Disassembly of the pedal assembly

1. Remove the pedal assembly from the pedal box.
2. Disassemble the pedal assembly as shown in Figure-8 .

Figure-8



6.6. Key(s)

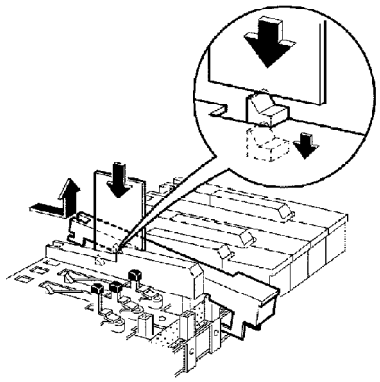
Disassembly

1. Remove the keyboard assembly (see step "Removing the keyboard assembly ").
2. While inserting a thin plate to press down a claw, push the rear of the key forward to disengage the key claw from the chassis.
3. Lift the key up to remove it.

Note:

- The key claw is easily broken. Do not apply undue force. Should a key claw break, it can still be used.
- If a black key is to be replaced, it is necessary to remove both adjacent white keys.

Figure-9

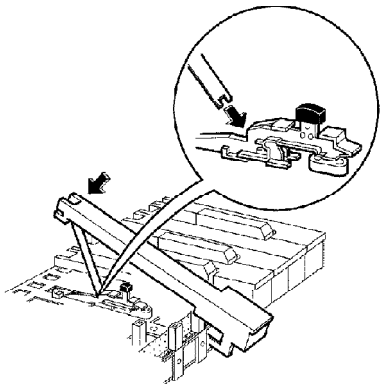


/ / / /

Assembly

1. **Insert the front part of the key into the chassis.**
2. **Insert the plate spring into the hammer notch as shown in Figure-10 .**
3. **While slowly lowering the key into the chassis, insert the plate spring into the notch at the rear of the key.**
4. **Carefully insert the key into the opening in the chassis and slide the key towards the rear to lock it in place.**

Figure-10

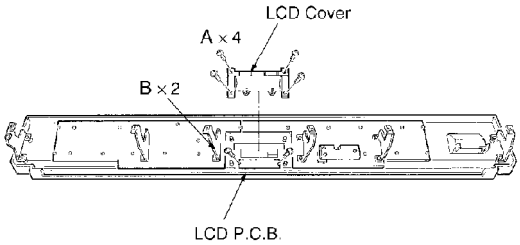


6.7. Removing the LCD P.C.B.

LCD P.C.B.

1. **Remove the control panel (see step "Removing the control panel ").**
2. **Remove the LCD cover mounting screws (A × 4 pcs.).**
3. **Remove the LCD P.C.B. mounting screws (B × 2 pcs.).**

Figure-11



6.8. Removing the printed circuit boards

- Remove the keyboard cover (see step "Removing the keyboard cover ").
- Pull out the connectors on the printed circuit boards.

MAIN P.C.B.

1. Remove the MAIN P.C.B. mounting screws (A x 1 pc, B x 2 pcs.).
2. Remove the ground wire holding screws (C x 1 pc.).
3. Release the claws of the 2 P.C.B. holders.

AS P.C.B.

1. Remove the AS P.C.B. mounting screws (D x 2 pcs.).
2. Release the claws of the 5 P.C.B. holders.

JACK P.C.B.

1. Remove the MAIN P.C.B.
2. Remove the JACK P.C.B. mounting screws (E x 3 pcs.).
3. Remove the ground wire holding screws (F x 3 pcs.).

JACK2 (HP) P.C.B.

1. Remove the keyboard assembly (see step "Removing the keyboard assembly ").
2. Remove the ground wire holding screws (G x 1 pc.).
3. Remove the HP P.C.B. mounting screws (H x 2 pcs.)
4. Remove the headphone jack mounting nuts (I x 2 pcs.).

ACP P.C.B.

1. Release the claws of the AC IN connector bracket.

6.9. Removing the Disk Drive unit

1. Remove the keyboard cover (see step "Removing the keyboard cover ").
2. Pull out the connector from the Disk Drive unit.

3. Remove the chassis on which Disk Drive unit is attached (J x 4 pcs.).
4. Remove the Disk Drive unit mounting screws (K x 4 pcs.).

6.10. Removing the speaker boxes and speakers

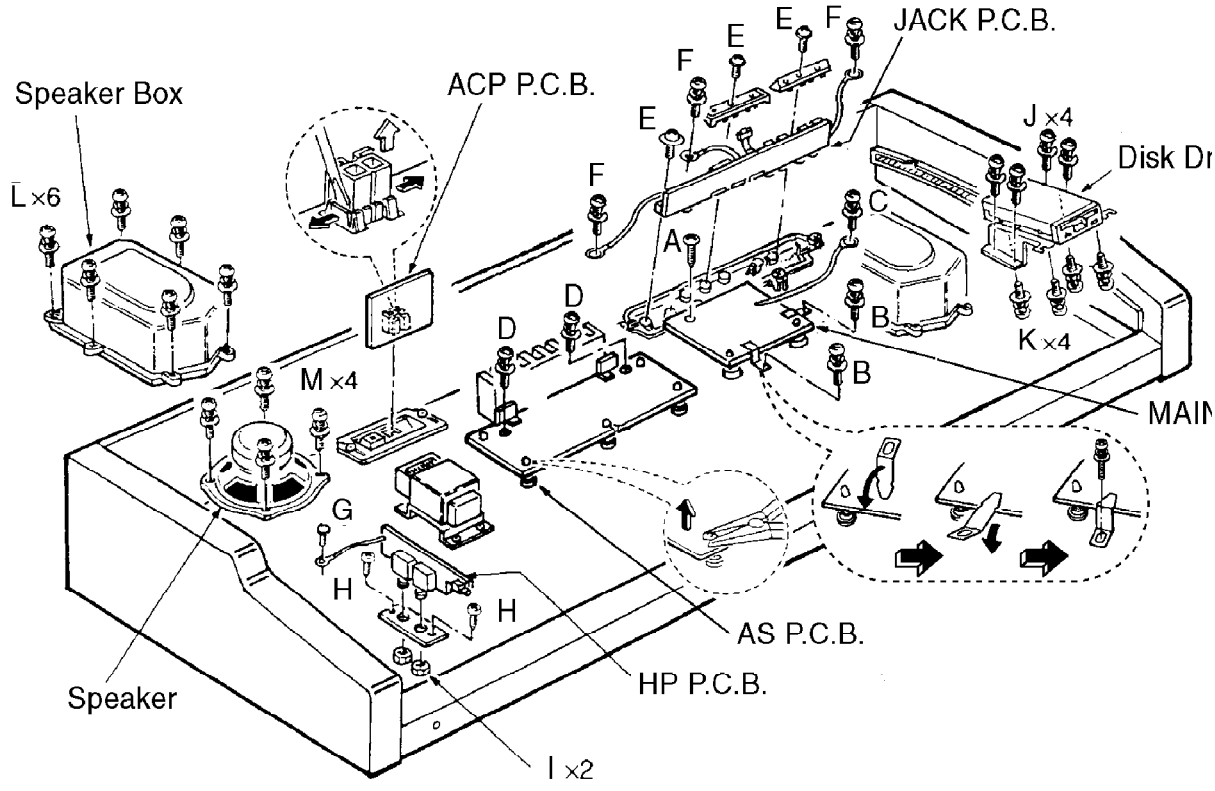
Removing the speaker box

1. Remove the keyboard cover (see step "Removing the keyboard cover ").
2. Remove the speaker box mounting screws (L x 6 pcs.).

Removing the speaker

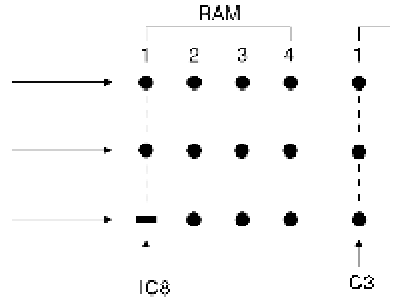
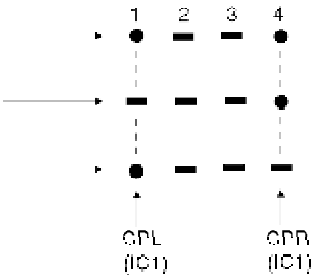
1. Remove the speaker box.
2. Remove the speaker mounting screws (M x 4 pcs.).

Figure-12

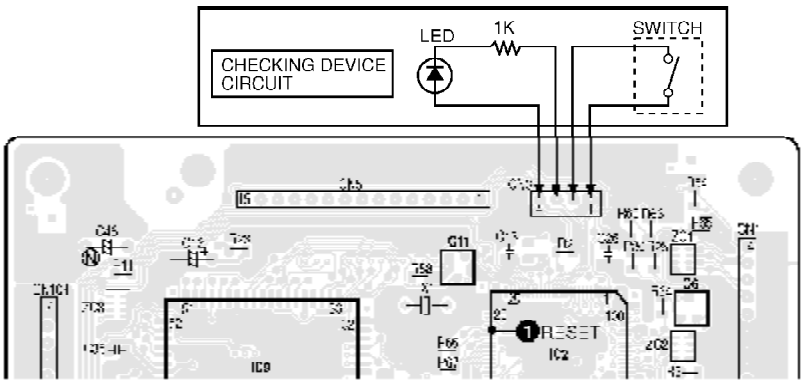


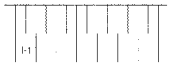
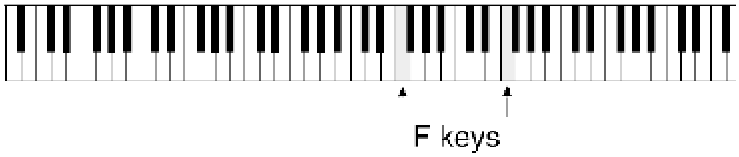
7. SELF-DIAGNOSTIC FUNCTIONS

This model has some self-diagnostic capabilities. When set to the self-diagnostic mode, operation of various components can be verified by following the procedures in the chart below.

PCB	TEST MODE	Procedure
MAIN	RAM (IC8), ROM (IC3,6) check	1. Connect the CHECKING DEVICE to CN3 on the MAIN P.C.B., and turn on the CHECKING D 2. Turn on the power switch. When the power switch is turned on, the LED of the CHECKING I flashes 8 times. The first 4 flashes are for the RAM check, and th flashes are for the ROM check. The order of the LED flashescorre the respective IC numbers as shown below. If an IC is defective, corresponding flash time is longer. Examples 1. RAM OK, ROM OK 2. RAM OK, ROM (IC6) defective 3. RAM (IC8) defective, ROM OK NOTE : ● indicates short flash time ▬ indicates long flash time 
CPL	CPU (IC1) check	1. Connect the CHECKING DEVICE to CN3 on the MAIN P.C.B. (the Checking Device switch s 2. Press and hold the two D keys shown below, and then turn on the power switch. When the power switch is turned on, the LED of the CHECKING D flashes 4 times. The order of the LED flashes correspond to the C on the respective P.C.B.s as shown below. If an IC is defective, thecorresponding flash time is longer. 1. CPL (IC1), CPR (IC1) OK 2. CPL (IC1) defective 2. CPR (IC1) defective NOTE : ● indicates short flash time ▬ indicates long flash time 

■ **Connection between serving CHECKING DEVICE and MAIN P.C.B.**



PCB	TEST MODE	Procedure
MAIN	Wave ROM check MAIN: IC106	1. Press and hold the two E keys shown below, and then turn on the power switch. 2. Select the GROUND sound.(SINE WAVE TEST) 3. Reduce the MAIN VOLUME level low enough.
		When set to the self-diagnostic mode, the Wave ROM outputs a s The Wave ROM correspond to the keyboard keys as shown in the When a key is pressed, the corresponding sine wave sound is pr no sound is produced, or if the sound is distorted, the Wave ROM corresponding to that key is defective. Select UPRIGHT sound.(OUTSEL TEST) This method allows to diagnose also the output routes (L/R) from Wave ROM. - 
		Select ELECTRIC / MODERN / MALLET & ORCH PERC sound. You can test HIGH / LOW / 10dB down sound.
CPL CPR	Control Panel buttons LED lighting check	Press and hold the two F keys shown below, and then turn on the switch. 
		Press the buttons on the control and confirm that the correspond light.
LCD	LCD check	Press and hold the two G keys shown below, and then turn on th switch.
		When set to the self-diagnostic mode, the test pattern is shown c display. Monitor the display to confirm that the characters appea

8. PRECAUTIONS BEFORE SERVICING

8.1. Precautions for measuring of the output waveforms

1. The waveform was measured with a “National Digital Storage Oscilloscope VP-5730A”. Therefore the waveforms of musical tone signals shown may differ somewhat due to the difference in the timing of triggering.

2. Since the 1/10 test probe is used, the indicated voltage value on the bottom part of each waveform illustration is 1/10 of the actual value (e.g. 0.2 V/cm should be 2.0 V/cm).

3. To measure the waveforms, first set this unit to the service diagnostic mode (refer to “Wave ROM check on SELF-DIAGNOSTIC FUNCTIONS ”). The WAVE ROM output will then be output as asine wave to facilitate the servicing check.

8.2. Important safety notice

- Components identified by a ⚠ mark have special characteristics important for safety.
- When replacing any of these components, use only manufacture’s specified parts.

8.3. Symbolic marks

The symbolic marks for resistors and capacitors which used in this circuits are classified as following Table-1 and Table-2 .

8.3.1. Resistors

- Resistors without symbolic mark are FIXED CARBON FILM RESISTORS (ERD-type).
- All resistors are 1/4 WATT, ±5 % TOLERANCE unless otherwise designated in schematic diagrams.

Table-1

SYMBOL	SPECIFICATION
F	Fixed Carbon Film Resistors “FLAME-PROOF” (ERD—F—type)
F	Fixed Wire Wound Resistors “FLAME-PROOF” (ERF—type)
F	Fixed Metal Oxide Film Resistors “FLAME-PROOF” (ERG—type)
F	Fixed Metal Film Resistors “FLAME-PROOF” (ERX—type)
G	Fixed Metal Film Resistors (Precision and High Stability) (ERO—type)
F	Fuse Type Fixed Metal Oxide Film Resistors “FLAME-PROOF” (ERQ—type)
F	Fuse Type Fixed Carbon Film Resistors “FLAME-PROOF” (ERD2FC—type)

8.3.2. Capacitors

- Capacitors without symbolic mark are POLYESTER CAPACITORS. (ECQM-type, ECQG-type, ±10% Tolerance)

- Polarized capacitors without symbolic mark are Aluminum Electrolytic Capacitors. (ECEA-type, ±20% Tolerance)

Table-2

SYMBOL	SPECIFICATION	TYPE
N	Non-Polarized Electrolytic Capacitors	ECEA_KN_type
Y	Non-Polarized Electrolytic (for Network system)	ECEA_Y_type
T	Tantalum Solid Electrolytic Capacitors	ECS_type
TF	Metallized Plastic Film Capacitors (TF Series)	ECQV_type
	Temperature Compensating Ceramic Capacitors	ECC_type
	High-Dielecytric Constant Ceramic Capacitors	ECK_type, ECR_type
	Axial Lead Ceramic Capacitors	ECB_type
	Metallized Polyester Film Capacitors for Across the Line	ECQ_EW_type
	Aluminum Electrolytic Capacitors for Smoothing Circuit	ECES_type
	Multilayer Ceramic Chip Capacitors	ECUV_type

9. MEASURING CONDITION

9.1. Measuring condition of MAIN P.C.B.

Check Point 2 - 5

Set to the Self-diagnostic Mode followings.

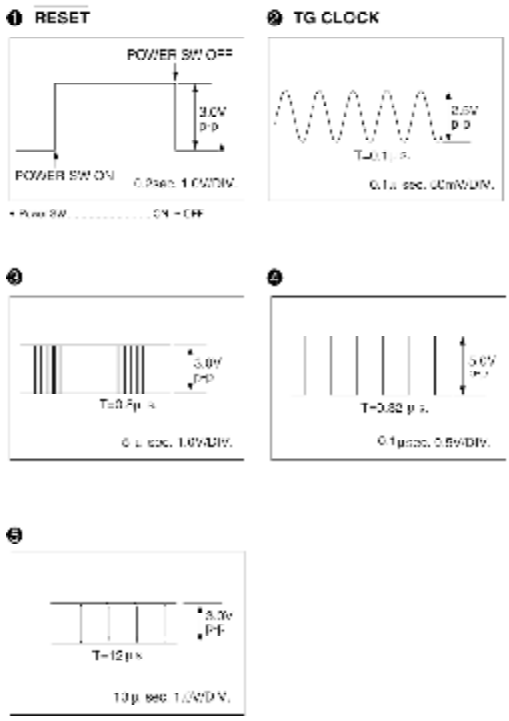
- While pressing two E keys simultaneously, turn on the power switch.

- SOUND: SOUND EXPLORER

- MAIN VOLUME: Max.

- Keyboard: A1

Check Point 1
Set to the Initial mode (refer to "OWNERS MANUAL ").

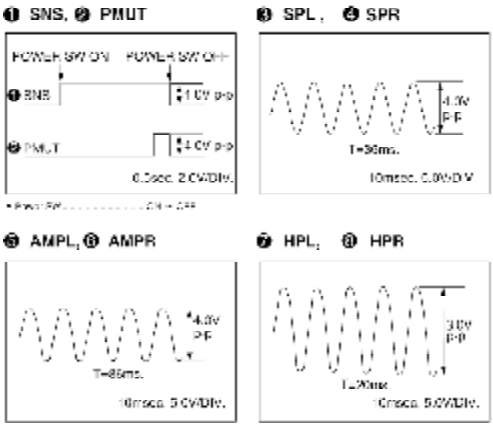


9.2. Measuring condition of AS P.C.B.

Check Point 3 - 8
Set to the Self-diagnostic Mode followings.

- While pressing two E keys simultaneously, turn on the power switch.
- SOUND: SOUND EXPLORER
- MAIN VOLUME: Max.
- Keyboard: A1

Check Point 1
Set to the Initial mode (refer to "OWNERS MANUAL ").



10. SCHEMATIC DIAGRAM

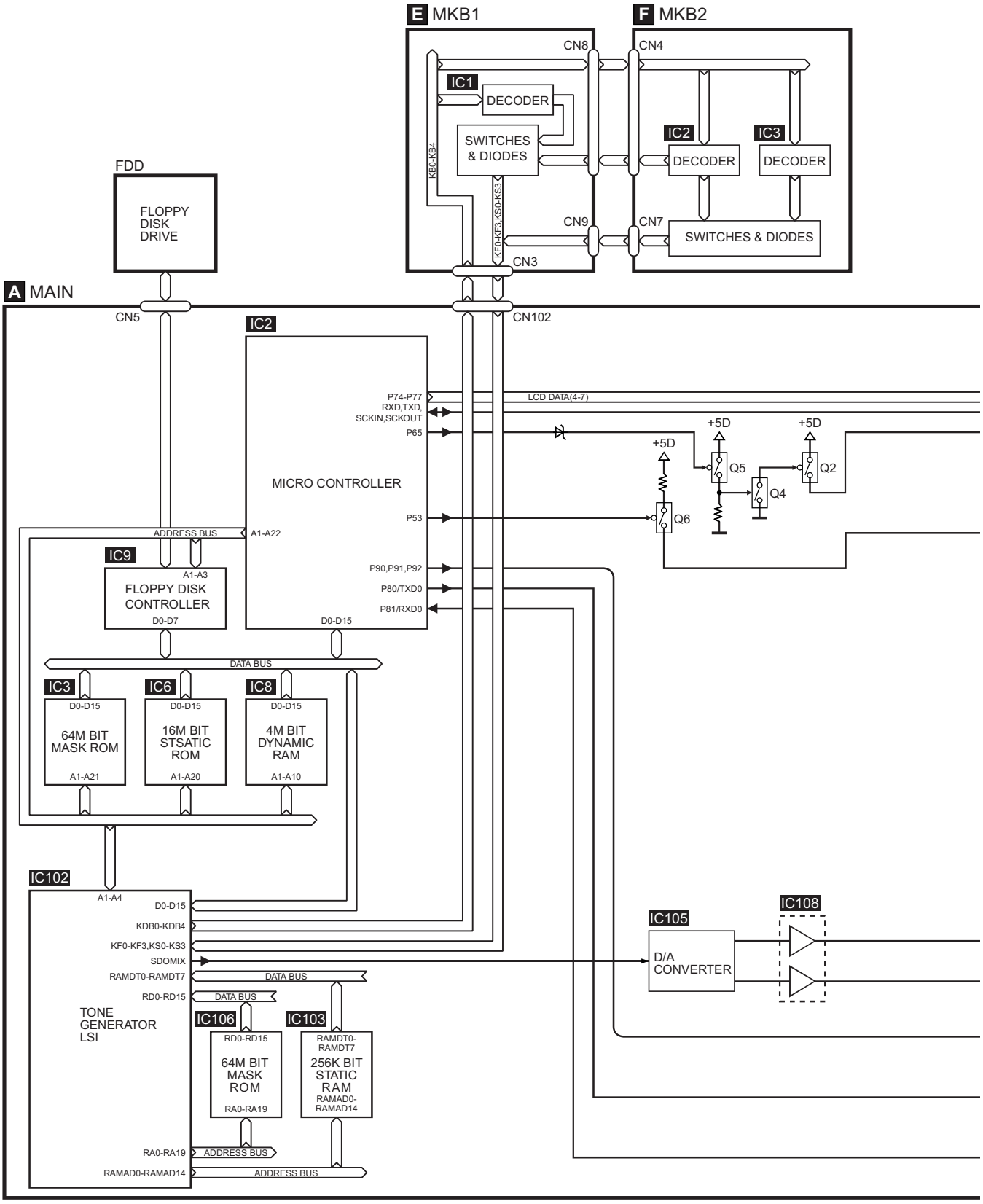
11. PRINTED CIRCUIT BOARD

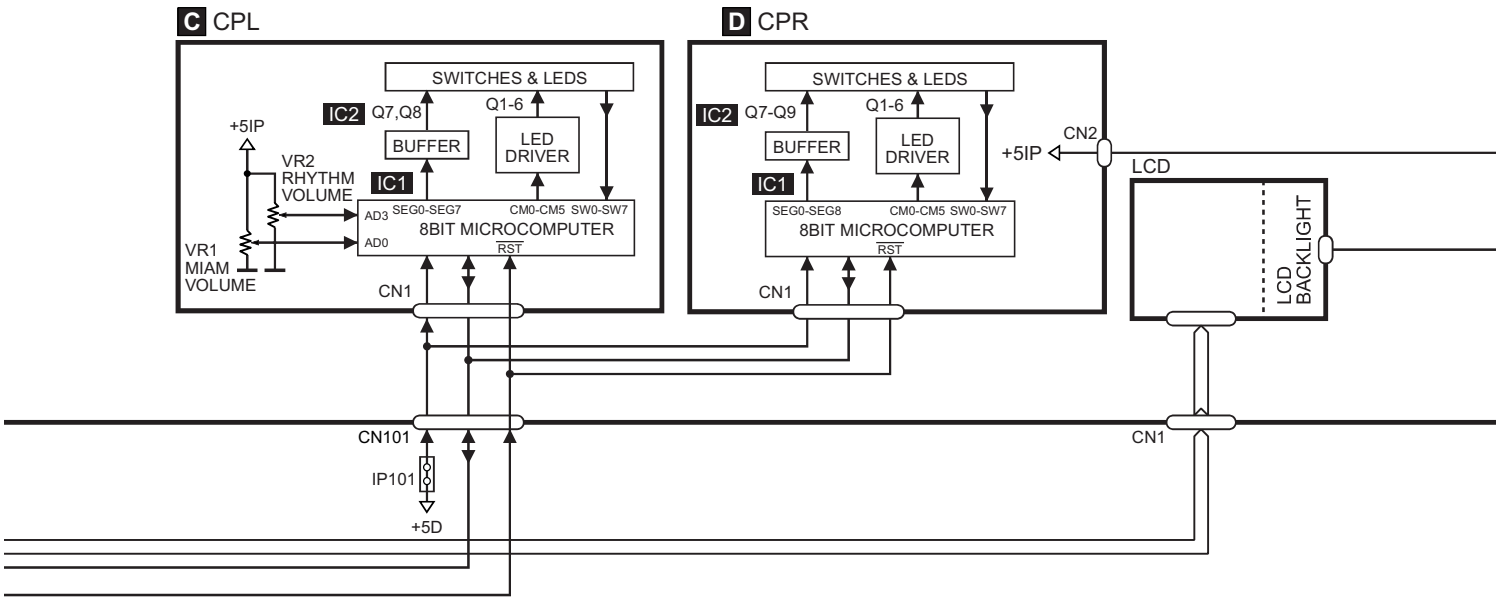
12. BLOCK DIAGRAM

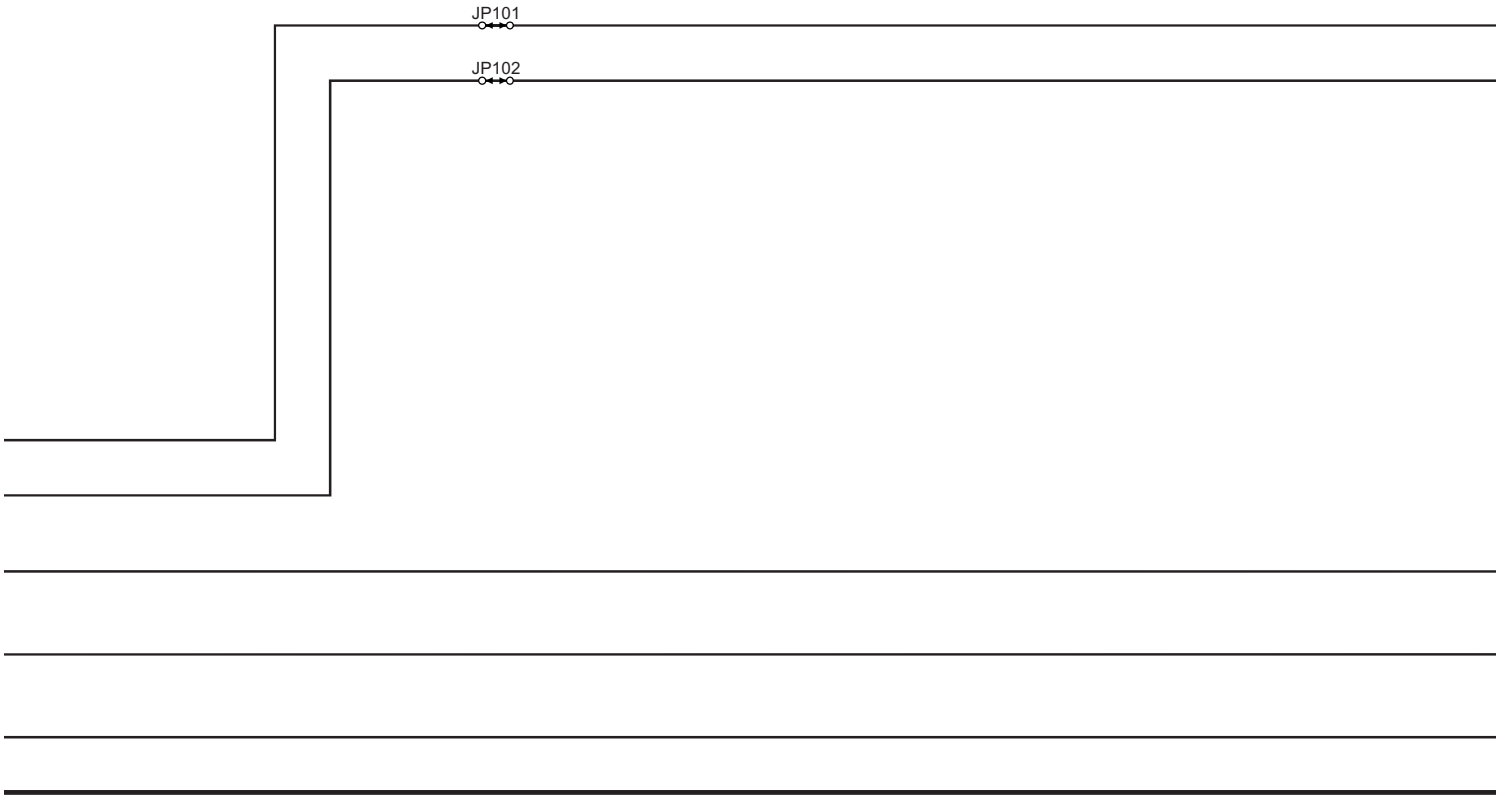
13. WIRING CONNECTION DIAGRAM

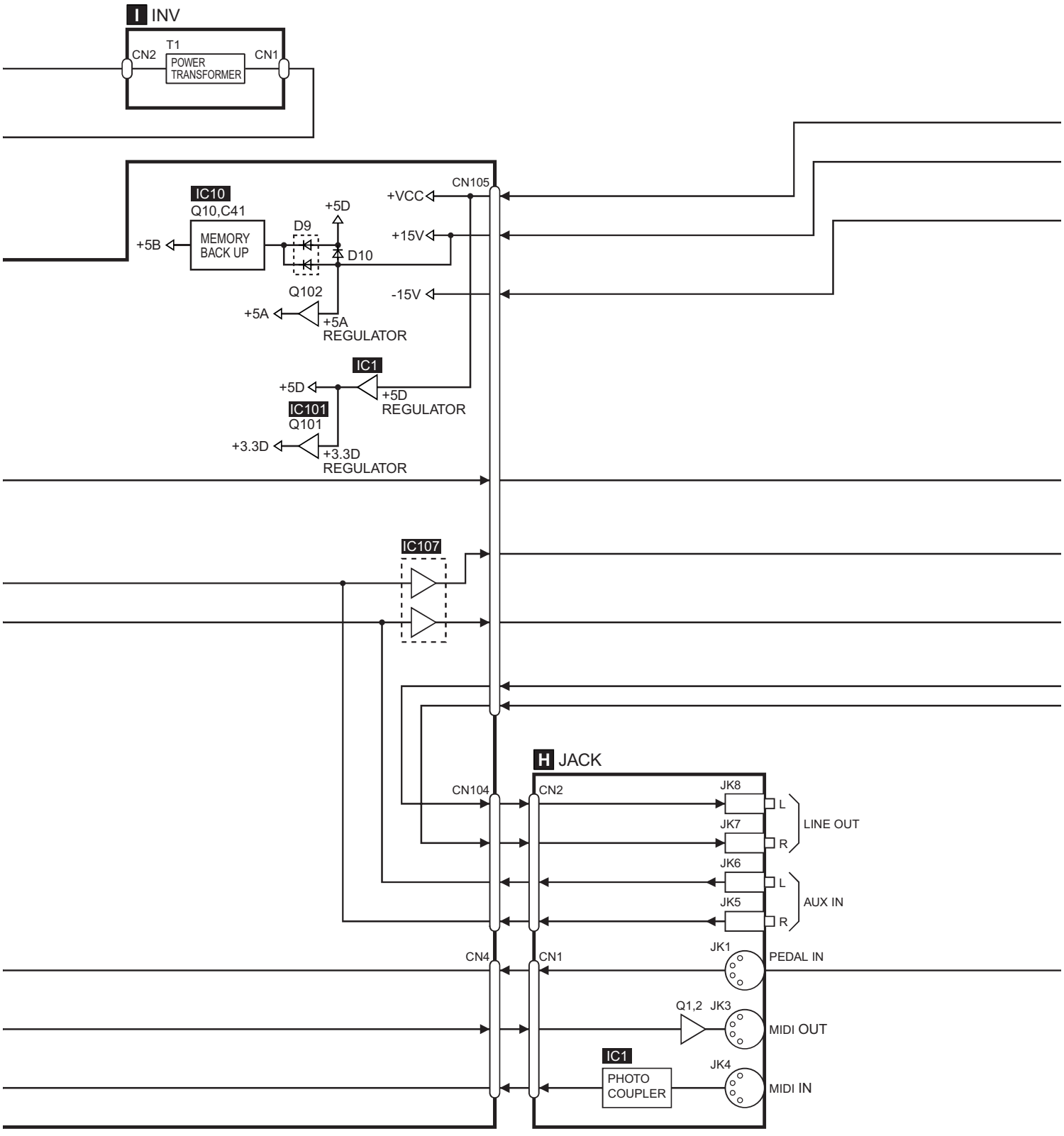
14. REPLACEMENT PARTS LIST

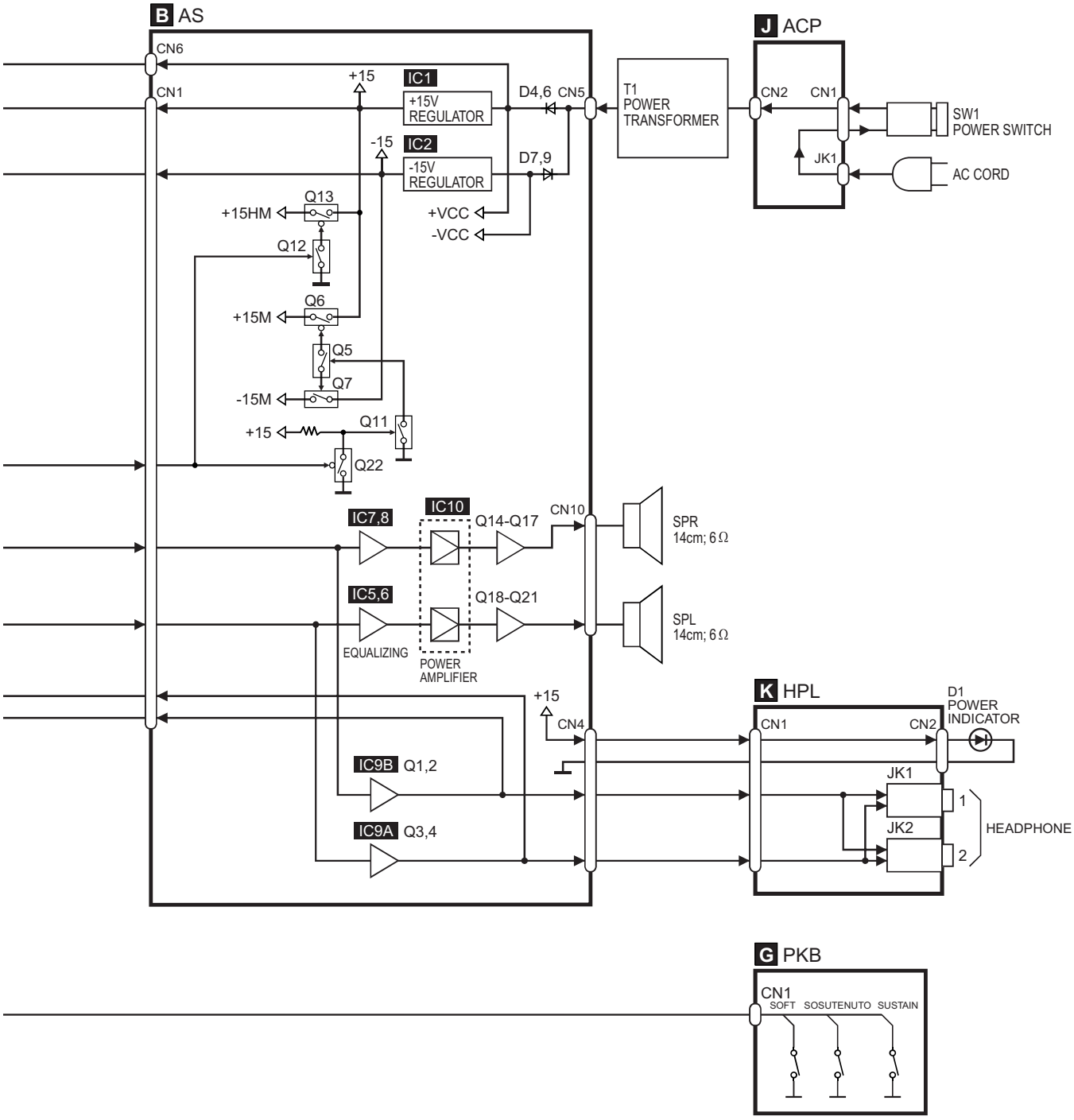
Notes:
***Important safety notice:**
Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.
***Warning: This product uses a laser diode. Refer to caution statements.**
***ACHTUNG: Die lasereinheit nicht zerlegen. Die lasereinheit darf nur gegen einc vom hersteller spezifizierte einheit ausgetauscht werden.**
***Capacity values are in microfarads (uF) unless specified otherwise. P=Pico-farads (pF), F= farads (F)**
***Resistance values are in ohms, unless specified otherwise. 1K=1,000 (OHM), 1M=1,000K (OHM)**
***The marking <RTL> indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retentionperiod of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**
***"<IA>"-"<IH>" marks in Remarks indicate languages of instruction manuals. [<IA>: Dansk, <IB>: English, <IC>: English, <ID>:French, <IE>: Germany, <IF>: Italiano, <IG> : Espanol, <IH>: Nederlands]**
***MAIN, CPL, CPR, HPL(JACK2), INVL, JACK, AS, ACP, PKB, MKB1 and MKB2 in Remarks indicate the Circuits and P. C. B.s. If the same Ref. No. is found in the replacement parts list,**


E MKB1
F MKB2
CN8
CN4
IC1
DECODER
SWITCHES & DIODES
IC2
DECODER
IC3
DECODER
KB0-KB4
KF0-KF3,KS0-KS3
CN9
CN7
SWITCHES & DIODES
CN3
FDD
FLOPPY DISK DRIVE
A MAIN
CN5
CN102
IC2
MICRO CONTROLLER
P74-P77
RXD,TXD, SCKIN,SCKOUT
P65
LCD DATA(4-7)
+5D
+5D
+5D
Q5
Q2
Q4
Q6
P53
ADDRESS BUS
A1-A22
IC9
A1-A3
FLOPPY DISK CONTROLLER
D0-D7
D0-D15
P90,P91,P92
P80/TXD0
P81/RXD0
DATA BUS
IC3
IC6
IC8
D0-D15
64M BIT MASK ROM
A1-A21
16M BIT STSATIC ROM
A1-A20
4M BIT DYNAMIC RAM
A1-A10
IC102
A1-A4
D0-D15
KDB0-KDB4
KF0-KF3,KS0-KS3
SDOMIX
RAMDT0-RAMDT7
DATA BUS
RD0-RD15
DATA BUS
TONE GENERATOR LSI
IC106
IC103
RD0-RD15
64M BIT MASK ROM
RA0-RA19
RAMDT0-RAMDT7
256K BIT STATIC RAM
RAMAD0-RAMAD14
RA0-RA19
ADDRESS BUS
RAMAD0-RAMAD14
ADDRESS BUS
IC105
D/A CONVERTER
IC108

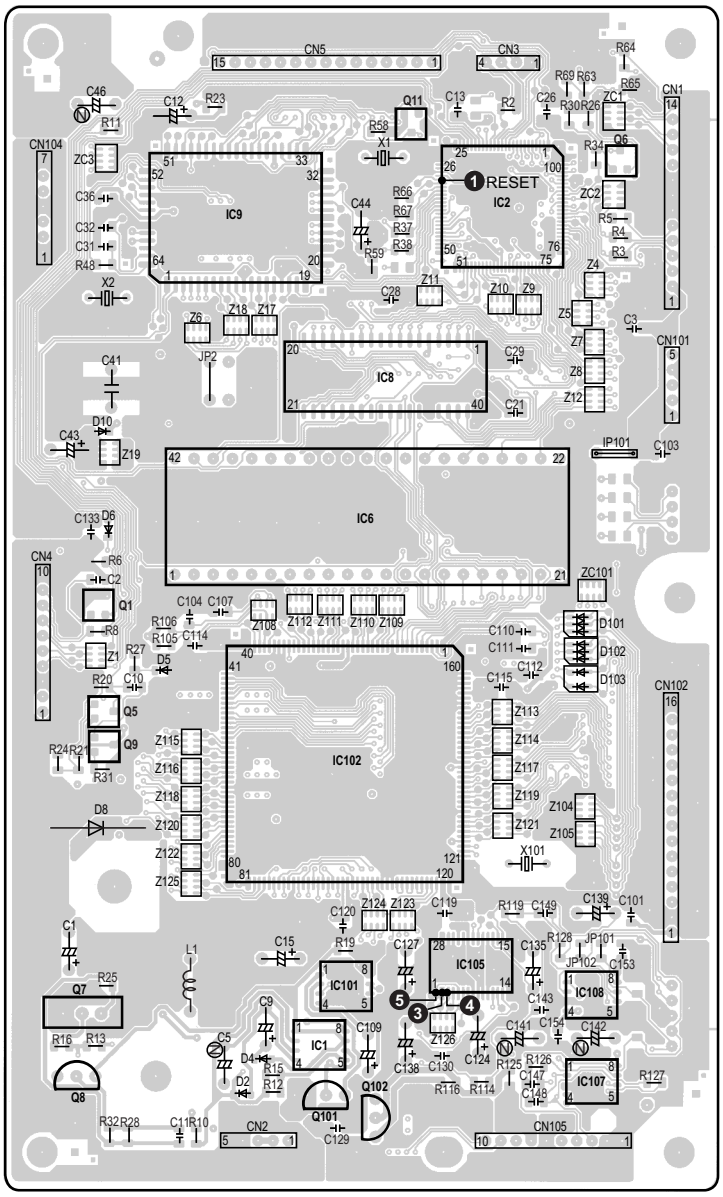

C CPL
SWITCHES & LEDS
IC2 Q7,Q8
Q1-6
BUFFER
LED DRIVER
+5IP
VR2 RHYTHM VOLUME
IC1
AD3
SEG0-SEG7
CM0-CM5 SW0-SW7
8BIT MICROCOMPUTER
AD0
RST
VR1 MIAM VOLUME
CN1
D CPR
SWITCHES & LEDS
IC2 Q7-Q9
Q1-6
BUFFER
LED DRIVER
+5IP
CN2
IC1
SEG0-SEG8
CM0-CM5 SW0-SW7
8BIT MICROCOMPUTER
RST
CN1
LCD
LCD BACKLIGHT
CN101
CN1
IP101
+5D


JP101
JP102


I INV
T1
CN2
POWER TRANSFORMER
CN1
IC10
Q10,C41
+5B
MEMORY BACK UP
D9
+5D
D10
Q102
+5A
+5A REGULATOR
CN105
+VCC
+15V
-15V
IC1
+5D
+5D REGULATOR
IC101
Q101
+3.3D
+3.3D REGULATOR
IC107
H JACK
CN104
CN2
JK8
L
JK7
R
LINE OUT
JK6
L
JK5
R
AUX IN
CN4
CN1
JK1
PEDAL IN
Q1,2
JK3
MIDI OUT
IC1
PHOTO COUPLER
JK4
MIDI IN


B AS
CN6
CN1
+15
IC1
+15V REGULATOR
D4,6
CN5
-15
IC2
-15V REGULATOR
D7,9
T1 POWER TRANSFORMER
J ACP
CN2
CN1
SW1 POWER SWITCH
JK1
AC CORD
+VCC
-VCC
Q13
+15HM
Q12
Q6
+15M
Q5
Q7
-15M
Q11
+15
Q22
IC7,8
IC10
Q14-Q17
CN10
SPR 14cm; 6Ω
IC5,6
Q18-Q21
SPL 14cm; 6Ω
EQUALIZING
POWER AMPLIFIER
+15
CN4
K HPL
CN1
CN2
D1 POWER INDICATOR
JK1
JK2
1
2
HEADPHONE
IC9B Q1,2
IC9A Q3,4
G PKB
CN1
SOFT
SOSUTENUTO
SUSTAIN

A MAIN P.C.B. (COMPONENT SIDE)

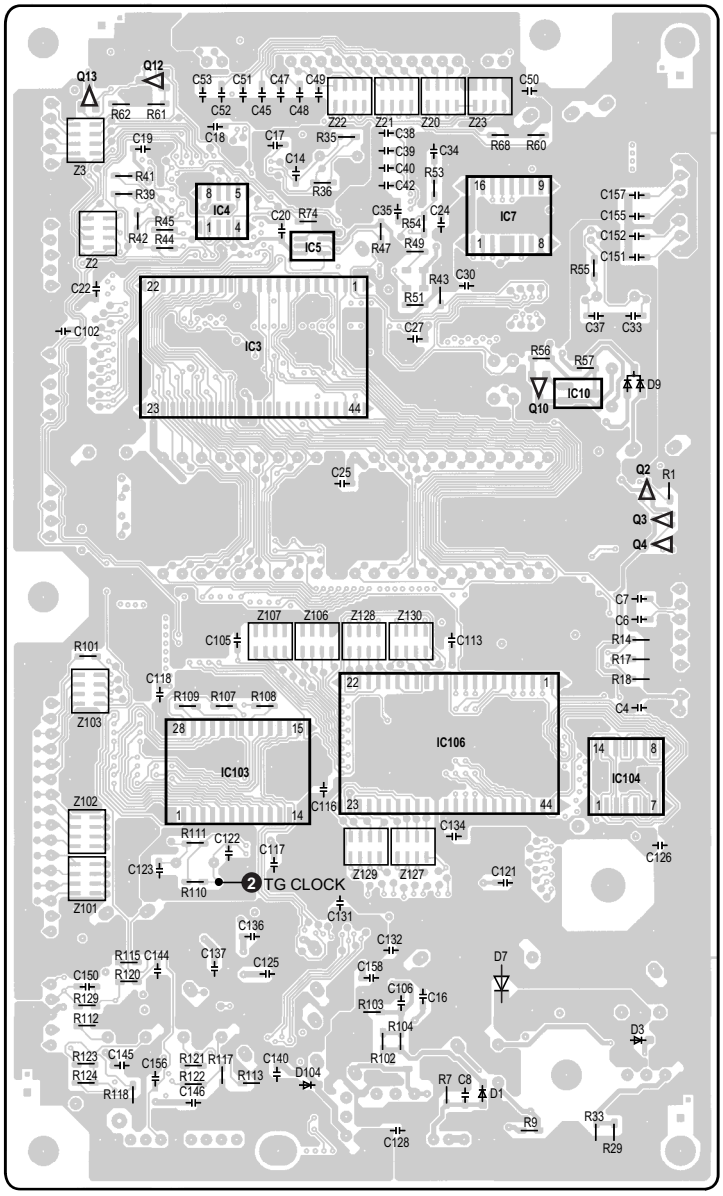


(SXPG235711)

ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
A MAIN P.C.B. (COMPONENT SIDE)											
IC1	B-6	CN3	C-1	Z116	A-4	R16	A-6	R125	C-6	C110	C-4
IC2	C-2	CN4	A-4	Z117	C-4	R19	B-5	R126	C-6	C111	C-4
IC6	B-3	CN5	B-1	Z118	A-5	R20	A-4	R127	D-6	C112	C-4
IC8	B-3	CN101	D-3	Z119	C-5	R21	A-4	R128	C-5	C114	B-4
IC9	B-2	CN102	D-4	Z120	A-5	R23	B-2	C1	A-5	C115	C-4
IC101	B-5	CN104	A-2	Z121	C-5	R24	A-4	C2	A-4	C119	C-5
IC102	B-4	CN105	C-6	Z122	A-5	R25	A-5	C3	D-2	C120	B-5
IC105	C-5	Z1	A-4	Z123	B-5	R26	C-2	C5	B-6	C124	C-6
IC107	C-6	Z4	C-2	Z124	B-5	R27	A-4	C9	B-5	C127	C-5
IC108	C-5	Z5	C-2	Z125	A-5	R28	A-6	C10	A-4	C129	B-6
Q1	A-4	Z6	B-2	Z126	C-6	R30	C-2	C11	B-6	C130	C-6
Q5	A-4	Z7	C-3	ZC1	C-2	R31	A-4	C12	A-2	C133	A-3
Q6	C-2	Z8	C-3	ZC2	C-2	R32	A-6	C13	C-2	C135	C-5
Q7	A-5	Z9	C-2	ZC3	A-2	R34	C-2	C15	B-5	C138	C-6
Q8	A-6	Z10	C-2	ZC101	C-4	R37	B-2	C21	C-3	C139	C-5
Q9	A-4	Z11	C-2	L1	B-5	R38	B-2	C26	C-2	C141	C-6
Q11	C-2	Z12	C-3	X1	B-2	R48	A-2	C28	B-2	C142	C-6
Q101	B-6	Z17	B-2	X2	A-2	R58	B-2	C29	C-3	C143	C-5
Q102	B-6	Z18	B-2	X101	C-5	R59	B-2	C31	A-2	C147	C-6
D2	B-6	Z19	A-3	R2	C-2	R63	C-1	C32	A-2	C148	C-6
D4	B-6	Z104	C-5	R3	C-2	R64	C-1	C36	A-2	C149	C-5
D5	A-4	Z105	C-5	R4	C-2	R65	D-1	C41	A-3	C153	C-5
D6	A-3	Z108	B-4	R5	C-2	R66	B-2	C43	A-3	C154	C-6
D8	A-5	Z109	B-4	R6	A-4	R67	B-2	C44	B-2	IP101	C-3
D10	A-3	Z110	B-4	R8	A-4	R69	C-1	C46	A-1	JP2	B-3
D101	C-4	Z111	B-4	R10	B-6	R105	A-4	C101	D-5	JP101	C-5
D102	C-4	Z112	B-4	R11	A-2	R106	A-4	C103	D-3	JP102	C-5
D103	C-4	Z113	C-4	R12	B-6	R114	C-6	C104	B-4		
CN1	D-1	Z114	C-4	R13	A-6	R116	C-6	C107	B-4		
CN2	B-6	Z115	A-4	R15	B-6	R119	C-5	C109	B-6		

A MAIN P.C.B. (FOIL SIDE)

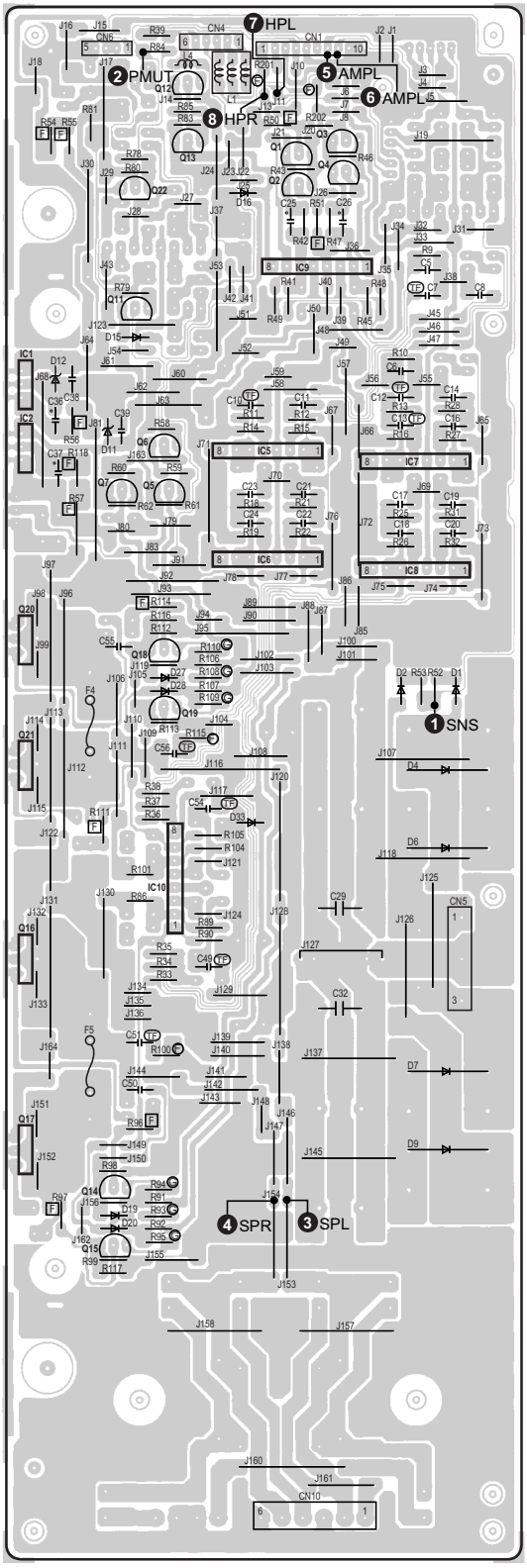


(SXPG235711)

ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
A MAIN P.C.B. (FOIL SIDE)											
IC3	B-3	Z101	A-5	R47	B-2	R117	B-6	C35	B-2	C126	D-5
IC4	B-2	Z102	A-5	R49	C-2	R118	A-6	C37	C-2	C128	B-6
IC5	B-2	Z103	A-4	R51	C-2	R120	A-5	C38	C-2	C131	B-5
IC7	C-2	Z106	B-4	R53	C-2	R121	B-6	C39	C-2	C132	B-5
IC10	C-3	Z107	B-4	R54	C-2	R122	B-6	C40	C-2	C134	C-5
IC103	B-4	Z127	C-5	R55	C-2	R123	A-6	C42	C-2	C136	B-5
IC104	C-4	Z128	B-4	R56	C-3	R124	A-6	C45	B-2	C137	B-5
IC106	C-4	Z129	B-5	R57	C-3	R129	A-5	C47	B-1	C140	B-6
Q2	D-3	Z130	C-4	R60	C-2	C4	C-4	C48	B-2	C144	A-5
Q3	D-3	R1	D-3	R61	A-2	C6	D-4	C49	B-1	C145	A-6
Q4	D-3	R7	C-6	R62	A-2	C7	D-4	C50	C-1	C146	B-6
Q10	C-3	R9	C-6	R68	C-2	C8	C-6	C51	B-1	C150	A-5
Q12	A-1	R14	C-4	R74	B-2	C14	B-2	C52	B-2	C151	C-2
Q13	A-1	R17	C-4	R101	A-4	C16	C-5	C53	B-1	C152	C-2
D1	C-6	R18	C-4	R102	B-6	C17	B-2	C102	A-3	C155	C-2
D3	D-6	R29	C-6	R103	B-5	C18	B-2	C105	B-4	C156	A-6
D7	C-5	R33	C-6	R104	B-6	C19	A-2	C106	B-5	C157	C-2
D9	D-3	R35	B-2	R107	B-4	C20	B-2	C113	C-4	C158	B-5
D104	B-6	R36	B-2	R108	B-4	C22	A-2	C116	B-5		
Z2	A-2	R39	A-2	R109	B-4	C24	C-2	C117	B-5		
Z3	A-2	R41	A-2	R110	B-5	C25	B-3	C118	A-4		
Z20	C-2	R42	A-2	R111	B-5	C27	C-3	C121	C-5		
Z21	B-2	R43	C-2	R112	A-6	C30	C-2	C122	B-5		
Z22	B-2	R44	A-2	R113	B-6	C33	D-2	C123	A-5		
Z23	C-2	R45	A-2	R115	A-5	C34	C-2	C125	B-5		

B AS P.C.B.

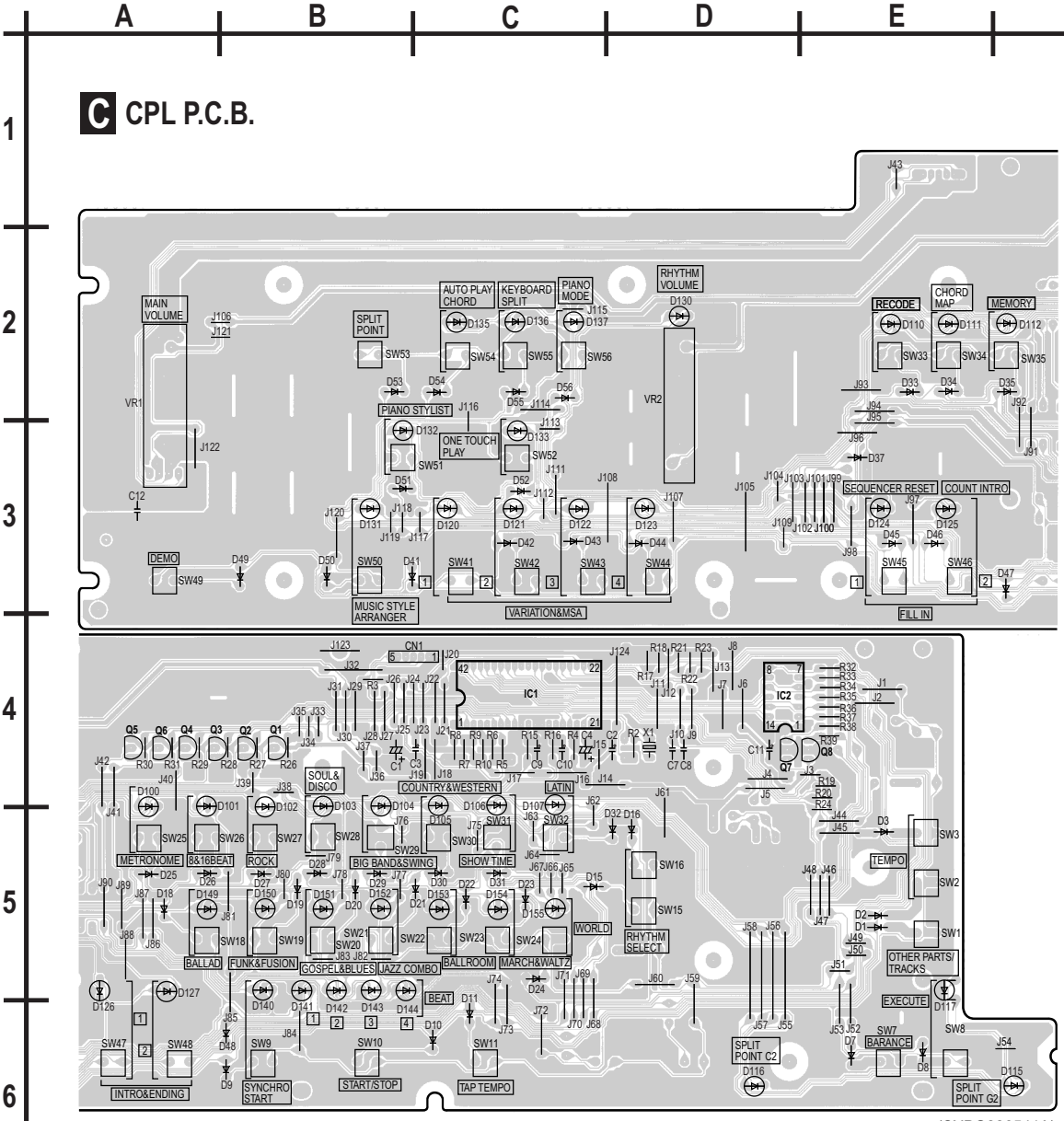


ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
B AS P.C.B.					
IC1	A-3	R16	C-3	R98	A-6
IC2	A-3	R18	B-3	R99	A-7
IC5	B-3	R19	B-3	R100	A-6
IC6	B-4	R21	B-3	R101	A-5
IC7	C-3	R22	B-3	R104	B-5
IC8	C-4	R25	C-3	R105	B-5
IC9	B-2	R26	C-4	R106	B-4
IC10	A-5	R27	C-3	R107	B-4
Q1	B-2	R28	C-3	R108	B-4
Q2	B-2	R31	C-3	R109	B-4
Q3	B-2	R32	C-4	R110	B-4
Q4	B-2	R33	A-5	R111	A-5
Q5	A-3	R34	A-5	R112	A-4
Q6	A-3	R35	A-5	R113	A-4
Q7	A-3	R36	A-5	R114	A-4
Q11	A-2	R37	A-5	R115	B-4
Q12	B-1	R38	A-5	R116	A-4
Q13	B-2	R39	A-1	R117	A-7
Q14	A-6	R41	B-2	R118	A-3
Q15	A-7	R42	B-2	R201	B-1
Q16	A-5	R43	B-2	R202	B-1
Q17	A-6	R45	B-3	C5	C-2
Q18	A-4	R46	B-2	C6	C-3
Q19	B-4	R47	B-2	C7	C-2
Q20	A-4	R48	B-2	C8	C-2
Q21	A-4	R49	B-3	C10	B-3
Q22	A-2	R50	B-2	C11	B-3
D1	C-4	R51	B-2	C12	B-3
D2	C-4	R52	C-4	C13	C-3
D4	C-4	R53	C-4	C14	C-3
D6	C-5	R54	A-2	C16	C-3
D7	C-6	R55	A-2	C17	C-3
D9	C-6	R56	A-3	C18	C-3
D11	A-3	R57	A-3	C19	C-3
D12	A-3	R58	A-3	C20	C-3
D15	A-3	R59	B-3	C21	B-3
D16	B-2	R60	A-3	C22	B-3
D19	A-6	R61	B-3	C23	B-3
D20	A-7	R62	A-3	C24	B-3
D27	B-4	R78	A-2	C25	B-2
D28	B-4	R79	A-2	C26	B-2
D33	B-5	R80	A-2	C29	B-5
CN1	B-1	R81	A-2	C32	B-6
CN4	B-1	R83	B-2	C36	A-3
CN5	C-5	R84	A-1	C37	A-3
CN6	A-1	R85	B-2	C38	A-3
CN10	B-8	R86	A-5	C39	A-3
L1	B-1	R89	B-5	C49	B-5
L4	B-1	R90	B-5	C50	A-6
R9	C-2	R91	A-6	C51	A-6
R10	C-3	R92	A-7	C54	B-5
R11	B-3	R93	A-6	C55	A-4
R12	B-3	R94	A-6	C56	A-4
R13	C-3	R95	A-7	F4	A-4
R14	B-3	R96	A-6	F5	A-6
R15	B-3	R97	A-6		

(SXPG2170301) except for [P, PC] areas.
(SXPG2170311) for [P, PC] areas.

C CPL P.C.B.

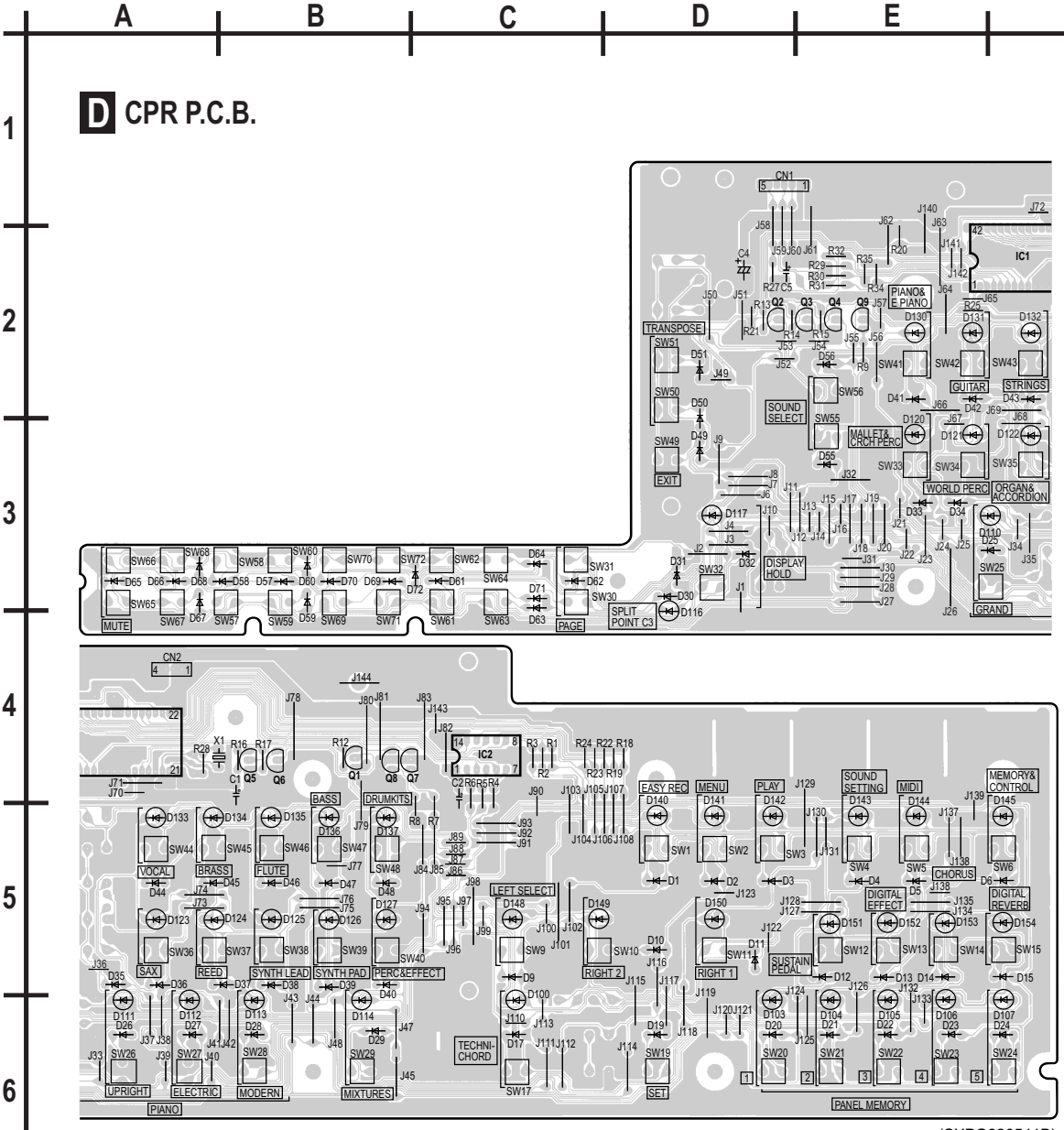


(SXPG226541A)

ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
C CPL P.C.B.											
IC1	C-4	D31	C-5	D115	F-6	R4	C-4	C3	B-4	SW33	E-2
IC2	D-4	D32	C-5	D116	D-6	R5	C-4	C4	C-4	SW34	E-2
Q1	B-4	D33	E-2	D117	E-6	R6	C-4	C7	D-4	SW35	E-2
Q2	B-4	D34	E-2	D120	C-3	R7	C-4	C8	D-4	SW41	C-3
Q3	A-4	D35	F-2	D121	C-3	R8	C-4	C9	C-4	SW42	C-3
Q4	A-4	D37	E-3	D122	C-3	R9	C-4	C10	C-4	SW43	C-3
Q5	A-4	D41	B-3	D123	D-3	R10	C-4	C11	D-4	SW44	D-3
Q6	A-4	D42	C-3	D124	E-3	R15	C-4	C12	A-3	SW45	E-3
Q7	D-4	D43	C-3	D125	E-3	R16	C-4	SW1	E-5	SW46	E-3
Q8	E-4	D44	D-3	D126	A-5	R17	D-4	SW2	E-5	SW47	A-6
D1	E-5	D45	E-3	D127	A-5	R18	D-4	SW3	E-5	SW48	A-6
D2	E-5	D46	E-3	D130	D-2	R19	E-4	SW7	E-6	SW49	A-3
D3	E-5	D47	F-3	D131	B-3	R20	E-4	SW8	E-6	SW50	B-3
D7	E-6	D48	B-6	D132	B-2	R21	D-4	SW9	B-6	SW51	C-3
D8	E-6	D49	B-3	D133	C-2	R22	D-4	SW10	B-6	SW52	C-3
D9	B-6	D50	B-3	D135	C-2	R23	D-4	SW11	C-6	SW53	B-2
D10	C-6	D51	B-3	D136	C-2	R24	E-4	SW15	D-5	SW54	C-2
D11	C-6	D52	C-3	D137	C-2	R26	B-4	SW16	D-5	SW55	C-2
D15	C-5	D53	B-2	D140	B-5	R27	B-4	SW18	A-5	SW56	C-2
D16	D-5	D54	B-2	D141	B-5	R28	B-4	SW19	B-5	VR1	A-2
D18	A-5	D55	C-2	D142	B-5	R29	A-4	SW20	B-5	VR2	D-2
D19	B-5	D56	C-2	D143	B-5	R30	A-4	SW21	B-5	X1	D-4
D20	B-5	D100	A-4	D144	B-5	R31	A-4	SW22	B-5		
D21	B-5	D101	A-4	D149	A-5	R32	E-4	SW23	C-5		
D22	C-5	D102	B-4	D150	B-5	R33	E-4	SW24	C-5		
D23	C-5	D103	B-4	D151	B-5	R34	E-4	SW25	A-5		
D24	C-5	D104	B-4	D152	B-5	R35	E-4	SW26	A-5		
D25	A-5	D105	C-4	D153	C-5	R36	E-4	SW27	B-5		
D26	A-5	D106	C-4	D154	C-5	R37	E-4	SW28	B-5		
D27	B-5	D107	C-4	D155	C-5	R38	E-4	SW29	B-5		
D28	B-5	D110	E-2	CN1	B-4	R39	E-4	SW30	C-5		
D29	B-5	D111	E-2	R2	D-4	C1	B-4	SW31	C-5		
D30	C-5	D112	F-2	R3	B-4	C2	C-4	SW32	C-5		

D CPR P.C.B.



(SXPG226541B)

ELECTRICAL PARTS LOCATION

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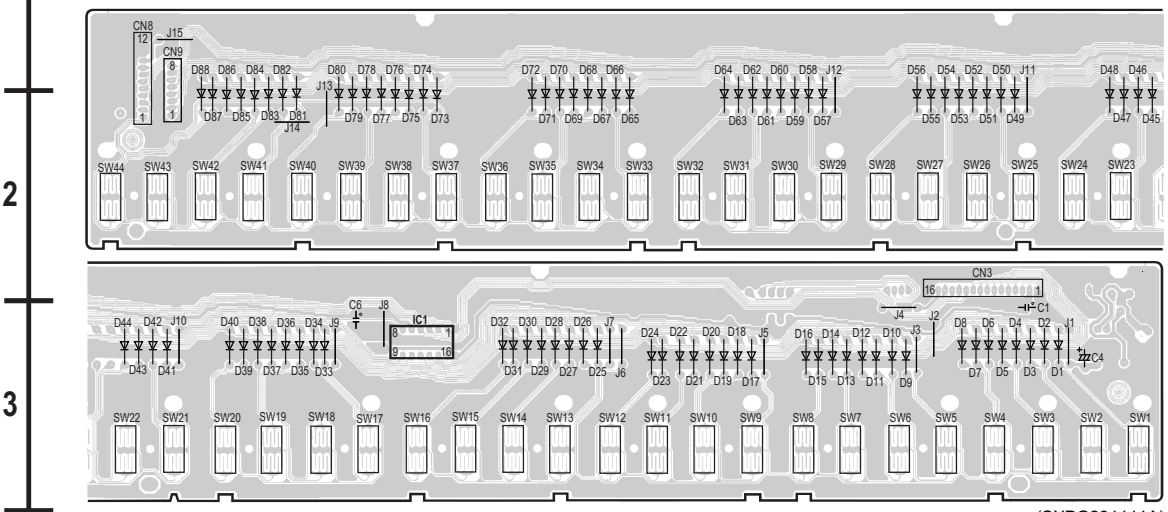
D CPR P.C.B.											
IC1	F-2	D31	D-3	D71	C-3	D148	C-5	R32	E-2	SW35	F-3
IC2	C-4	D32	D-3	D72	C-3	D149	C-5	R34	E-2	SW36	A-5
Q1	B-4	D33	E-3	D100	C-6	D150	D-5	R35	E-2	SW37	B-5
Q2	D-2	D34	E-3	D103	D-6	D151	E-5	C1	B-4	SW38	B-5
Q3	E-2	D35	A-5	D104	E-6	D152	E-5	C2	C-4	SW39	B-5
Q4	E-2	D36	A-5	D105	E-6	D153	E-5	C4	D-2	SW40	B-5
Q5	B-4	D37	B-5	D106	E-6	D154	F-5	C5	D-2	SW41	E-2
Q6	B-4	D38	B-5	D107	F-6	CN1	D-1	SW1	D-5	SW42	E-2
Q7	C-4	D39	B-5	D110	E-3	CN2	A-4	SW2	D-5	SW43	E-2
Q8	B-4	D40	B-5	D111	A-6	R1	C-4	SW3	D-5	SW44	A-5
Q9	E-2	D41	E-2	D112	A-6	R2	C-4	SW4	E-5	SW45	B-5
D1	D-5	D42	E-2	D113	B-6	R3	C-4	SW5	E-5	SW46	B-5
D2	D-5	D43	F-2	D114	B-6	R4	C-4	SW6	F-5	SW47	B-5
D3	D-5	D44	A-5	D116	D-4	R5	C-4	SW9	C-5	SW48	B-5
D4	E-5	D45	A-5	D117	D-3	R6	C-4	SW10	C-5	SW49	D-3
D5	E-5	D46	B-5	D120	E-3	R7	C-4	SW11	D-5	SW50	D-2
D6	F-5	D47	B-5	D121	E-3	R8	C-4	SW12	E-5	SW51	D-2
D9	C-5	D48	B-5	D122	F-3	R9	E-2	SW13	E-5	SW55	E-3
D10	D-5	D49	D-3	D123	A-5	R12	B-4	SW14	E-5	SW56	E-2
D11	D-5	D50	D-2	D124	B-5	R13	D-2	SW15	F-5	SW57	B-4
D12	E-5	D51	D-2	D125	B-5	R14	D-2	SW17	C-6	SW58	B-3
D13	E-5	D55	E-3	D126	B-5	R15	E-2	SW19	D-6	SW59	B-4
D14	E-5	D56	E-2	D127	B-5	R16	B-4	SW20	D-6	SW60	B-3
D15	F-5	D57	B-3	D130	E-2	R17	B-4	SW21	E-6	SW61	C-4
D17	C-6	D58	B-3	D131	E-2	R18	D-4	SW22	E-6	SW62	C-3
D19	D-6	D59	B-4	D132	F-2	R19	D-4	SW23	E-6	SW63	C-4
D20	D-6	D60	B-3	D133	A-5	R20	E-2	SW24	F-6	SW64	C-3
D21	E-6	D61	C-3	D134	A-5	R21	D-2	SW25	E-3	SW65	A-4
D22	E-6	D62	C-3	D135	B-5	R22	C-4	SW26	A-6	SW66	A-3
D23	E-6	D63	C-4	D136	B-5	R23	C-4	SW27	A-6	SW67	A-4
D24	F-6	D64	C-3	D137	B-5	R24	C-4	SW28	B-6	SW68	A-3
D25	E-3	D65	A-3	D140	D-5	R25	E-2	SW29	B-6	SW69	B-4
D26	A-6	D66	A-3	D141	D-5	R27	D-2	SW30	C-4	SW70	B-3
D27	A-6	D67	A-4	D142	D-5	R28	A-4	SW31	C-3	SW71	B-4
D28	B-6	D68	A-3	D143	E-5	R29	E-2	SW32	D-3	SW72	C-3
D29	B-6	D69	B-3	D144	E-5	R30	E-2	SW33	E-3	X1	A-4
D30	D-3	D70	B-3	D145	F-5	R31	E-2	SW34	E-3		

E MKB1 P.C.B.

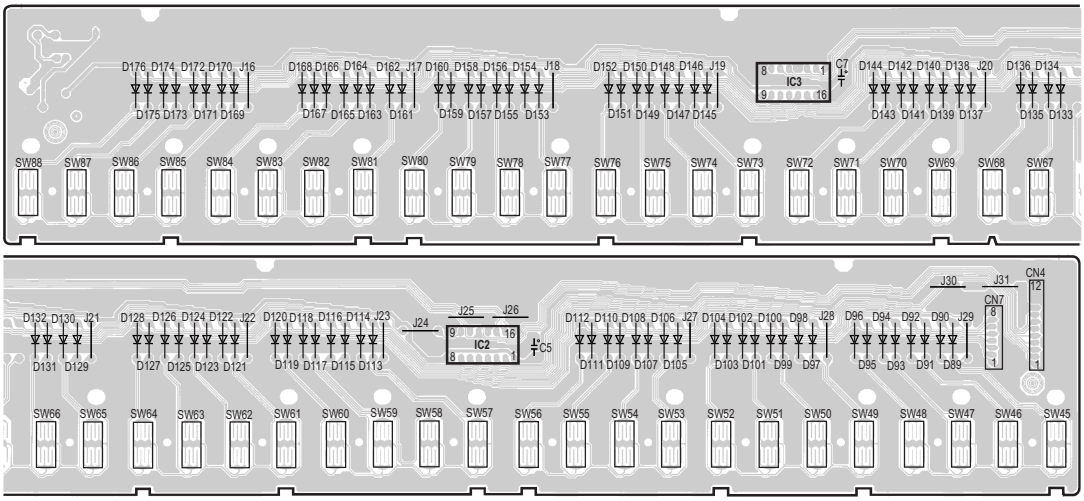


(SXPG231111A)

ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
E MKB1 P.C.B.									
IC1	B-3	D28	C-3	D56	E-1	D84	B-1	SW18	B-3
D1	E-3	D29	C-3	D57	D-2	D85	A-2	SW19	B-3
D2	E-3	D30	C-3	D58	D-1	D86	A-1	SW20	A-3
D3	E-3	D31	C-3	D59	D-2	D87	A-2	SW21	A-3
D4	E-3	D32	C-3	D60	D-1	D88	A-1	SW22	A-3
D5	E-3	D33	B-3	D61	D-2	CN3	E-2	SW23	F-2
D6	E-3	D34	B-3	D62	D-1	CN8	A-1	SW24	E-2
D7	E-3	D35	B-3	D63	D-2	CN9	A-1	SW25	E-2
D8	E-3	D36	B-3	D64	D-1	C1	E-3	SW26	E-2
D9	E-3	D37	B-3	D65	C-2	C4	F-3	SW27	E-2
D10	E-3	D38	B-3	D66	C-1	C6	B-3	SW28	E-2
D11	E-3	D39	A-3	D67	C-2	SW1	F-3	SW29	D-2
D12	D-3	D40	A-3	D68	C-1	SW2	F-3	SW30	D-2
D13	D-3	D41	A-3	D69	C-2	SW3	E-3	SW31	D-2
D14	D-3	D42	A-3	D70	C-1	SW4	E-3	SW32	D-2
D15	D-3	D43	A-3	D71	C-2	SW5	E-3	SW33	C-2
D16	D-3	D44	A-3	D72	C-1	SW6	E-3	SW34	C-2
D17	D-3	D45	F-2	D73	B-2	SW7	D-3	SW35	C-2
D18	D-3	D46	F-1	D74	B-1	SW8	D-3	SW36	C-2
D19	D-3	D47	F-2	D75	B-2	SW9	D-3	SW37	B-2
D20	D-3	D48	F-1	D76	B-1	SW10	D-3	SW38	B-2
D21	D-3	D49	E-2	D77	B-2	SW11	C-3	SW39	B-2
D22	D-3	D50	E-1	D78	B-1	SW12	C-3	SW40	B-2
D23	C-3	D51	E-2	D79	B-2	SW13	C-3	SW41	B-2
D24	C-3	D52	E-1	D80	B-1	SW14	C-3	SW42	A-2
D25	C-3	D53	E-2	D81	B-2	SW15	C-3	SW43	A-2
D26	C-3	D54	E-1	D82	B-1	SW16	B-3	SW44	A-2
D27	C-3	D55	E-2	D83	B-2	SW17	B-3		

F MKB2 P.C.B.

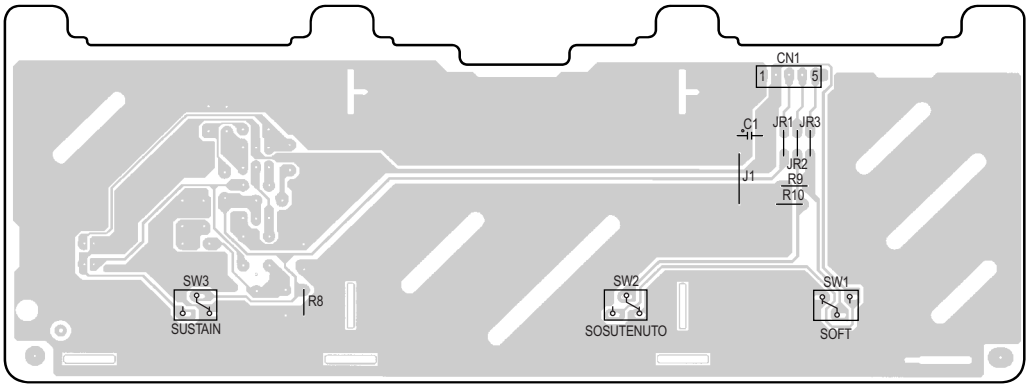


(SXPG231111B)

ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
F MKB2 P.C.B.									
IC2	C-3	D115	B-3	D143	E-2	D171	B-2	SW63	B-3
IC3	E-2	D116	B-3	D144	E-1	D172	B-1	SW64	A-3
D89	E-3	D117	B-3	D145	D-2	D173	B-2	SW65	A-3
D90	E-3	D118	B-3	D146	D-1	D174	B-1	SW66	A-3
D91	E-3	D119	B-3	D147	D-2	D175	A-2	SW67	F-2
D92	E-3	D120	B-3	D148	D-1	D176	A-1	SW68	E-2
D93	E-3	D121	B-3	D149	D-2	CN4	F-2	SW69	E-2
D94	E-3	D122	B-3	D150	D-1	CN7	E-3	SW70	E-2
D95	E-3	D123	B-3	D151	D-2	C5	C-3	SW71	E-2
D96	E-3	D124	B-3	D152	D-1	C7	E-1	SW72	E-2
D97	E-3	D125	B-3	D153	C-2	SW45	F-3	SW73	D-2
D98	E-3	D126	B-3	D154	C-1	SW46	F-3	SW74	D-2
D99	D-3	D127	A-3	D155	C-2	SW47	E-3	SW75	D-2
D100	D-3	D128	A-3	D156	C-1	SW48	E-3	SW76	D-2
D101	D-3	D129	A-3	D157	C-2	SW49	E-3	SW77	C-2
D102	D-3	D130	A-3	D158	C-1	SW50	E-3	SW78	C-2
D103	D-3	D131	A-3	D159	C-2	SW51	D-3	SW79	C-2
D104	D-3	D132	A-3	D160	C-1	SW52	D-3	SW80	C-2
D105	D-3	D133	F-2	D161	C-2	SW53	D-3	SW81	B-2
D106	D-3	D134	F-1	D162	C-1	SW54	D-3	SW82	B-2
D107	D-3	D135	F-2	D163	B-2	SW55	C-3	SW83	B-2
D108	D-3	D136	F-1	D164	B-1	SW56	C-3	SW84	B-2
D109	D-3	D137	E-2	D165	B-2	SW57	C-3	SW85	B-2
D110	D-3	D138	E-1	D166	B-1	SW58	C-3	SW86	A-2
D111	D-3	D139	E-2	D167	B-2	SW59	C-3	SW87	A-2
D112	C-3	D140	E-1	D168	B-1	SW60	B-3	SW88	A-2
D113	B-3	D141	E-2	D169	B-2	SW61	B-3		
D114	B-3	D142	E-1	D170	B-1	SW62	B-3		

G PKB P.C.B.

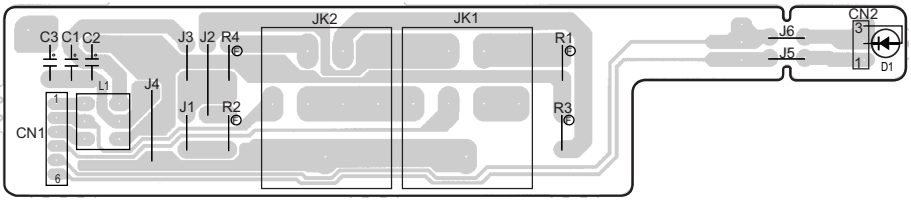


(SXPG218231)

ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
G PKB P.C.B.							
CN1	D-1	R10	D-2	SW2	D-3	JR2	E-2
R8	B-3	C1	D-2	SW3	B-3	JR3	E-2
R9	E-2	SW1	E-3	JR1	D-2		

K HPL P.C.B.

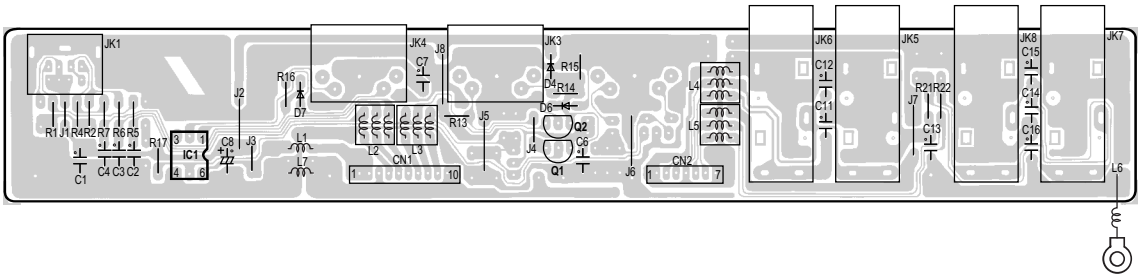


(SXPG226531D)

ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
K HPL P.C.B.					
D1	E-5	R2	B-6	C3	A-5
CN1	A-6	R3	C-6	JK1	C-5
CN2	E-5	R4	B-5	JK2	B-5
L1	A-6	C1	A-5		
R1	C-5	C2	A-5		

H JACK P.C.B.

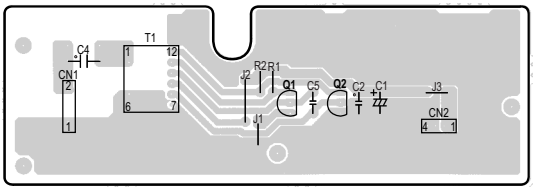


(SXPG219651)

ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
H JACK P.C.B.											
IC1	B-2	L1	B-2	R2	A-2	R16	B-2	C6	C-2	C16	F-2
Q1	C-2	L2	B-2	R4	A-2	R17	A-2	C7	C-1	JK1	A-1
Q2	C-2	L3	C-2	R5	A-2	R21	E-2	C8	B-2	JK3	C-1
D4	C-2	L4	D-2	R6	A-2	R22	E-2	C11	E-2	JK4	C-1
D6	C-2	L5	D-2	R7	A-2	C1	A-2	C12	E-1	JK5	E-1
D7	B-2	L6	F-2	R13	C-2	C2	A-2	C13	E-2	JK6	E-1
CN1	C-2	L7	B-2	R14	C-2	C3	A-2	C14	F-2	JK7	F-1
CN2	D-2	R1	A-2	R15	C-1	C4	A-2	C15	F-1	JK8	F-1

I INV P.C.B.



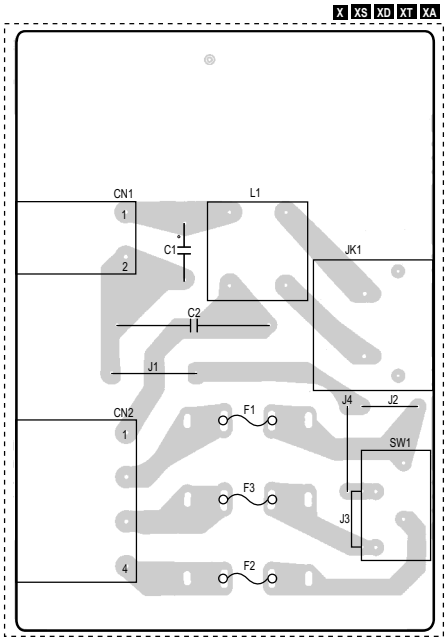
(SXPG226531C)

ELECTRICAL PARTS LOCATION

Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.	Ref.No.	Lo.No.
I INV P.C.B.							
Q1	B-5	CN2	C-5	C1	B-5	C5	B-5
Q2	B-5	R1	B-5	C2	B-5	T1	A-5
CN1	A-5	R2	B-5	C4	A-5		

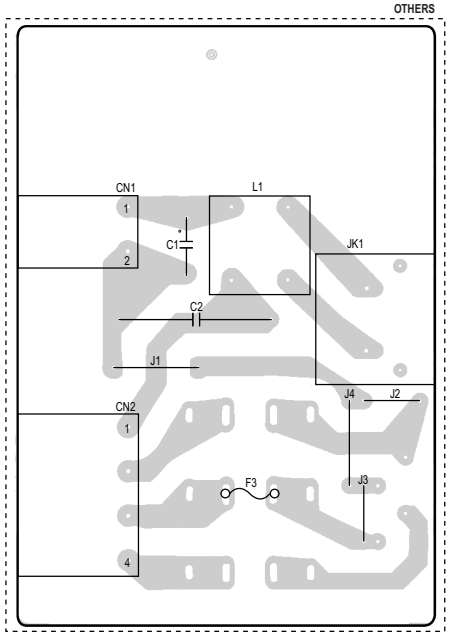
J ACP P.C.B.

X XS XD XT XA



(SXPG2255101)

OTHERS



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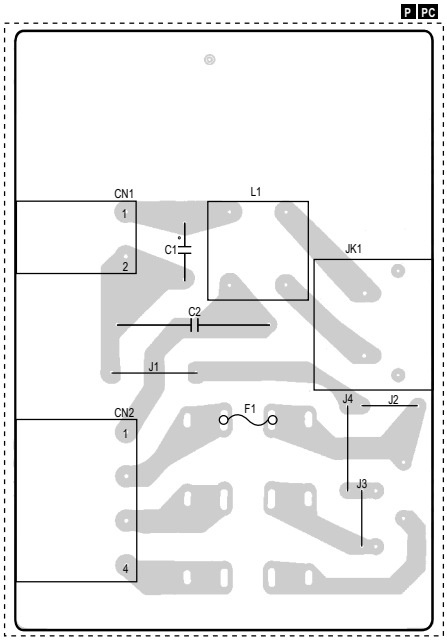
P Pc



(SXPG215581)

ELECTRICAL PARTS LOCATION

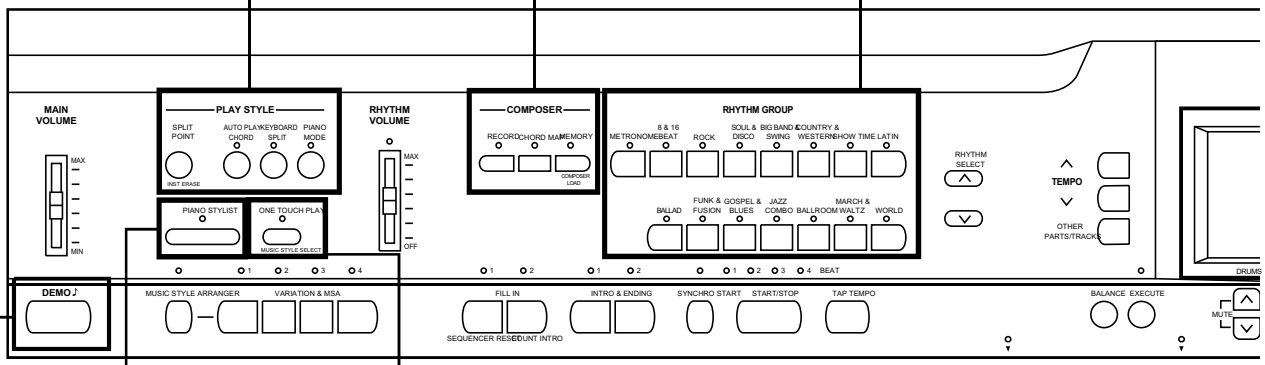
Ref.No.	Lo.No.	Ref.No.	Lo.No.
J ACP P.C.B.			
L1	B-2	F1	B-3
CN1	A-2	F2	B-4
CN2	A-3	F3	B-3
C1	B-2	JK1	B-2
C2	B-3	SW1	C-3

Controls and functions

PLAY STYLE
Select standard piano or one of various other performance styles.

COMPOSER
Create and store original rhythm patterns.

RHYTHM GROUP
Choose preset automatic rhythm patterns.



DEMO
You can listen to programmed demonstration tunes which show what your Digital Ensemble can do.

PIANO STYLIST
For performances using piano sounds, just select a piano style, and in seconds an appropriate panel registration is set, including the accompaniment pattern.

ONE TOUCH PLAY
Sounds and effects which fit the selected rhythm are automatically selected.

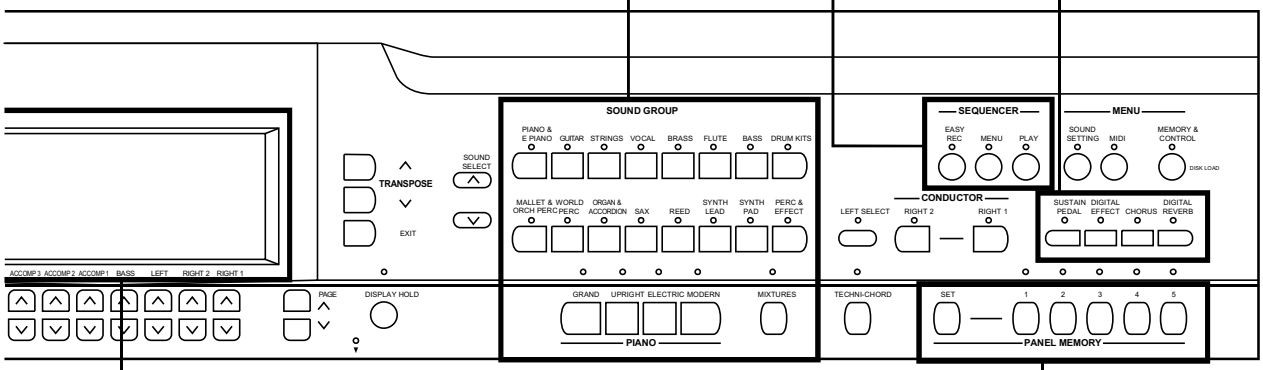
Tuning
Unlike an acoustic piano, your PR Series Digital Ensemble never needs tuning.

- The pitch of this instrument can be adjusted for when playing along with other instruments.

SOUND GROUP
You can select from four piano-type sounds. Or choose the sounds of various instruments.

SEQUENCER
Record and play back your performance.

Effects
Add various effects to the sounds.



DISPLAY (LCD screen)
Displays performance information, function settings and other messages.

PANEL MEMORY
Store the current panel settings for instant recall.

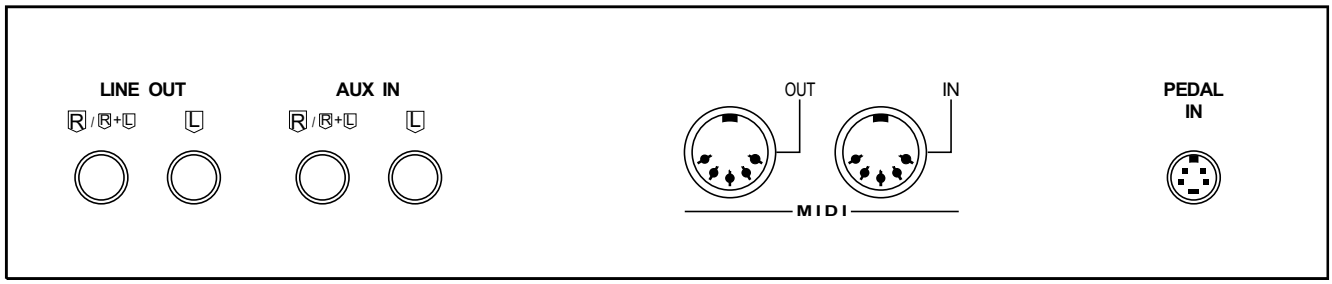
■ **About the backup memory**

The settings and memories are maintained for approximately 80 minutes after the power to this instrument is turned off. If you wish to keep the memory contents, before you turn off the instrument, use the SAVE procedure to store the desired data on a disk for recall at a later time.

- The backup memory does not function until the power has been on for about 10 minutes.
- When you quit the operating mode, a warning display may appear to remaind you to save the data.

Connections

(On the back of the piano)



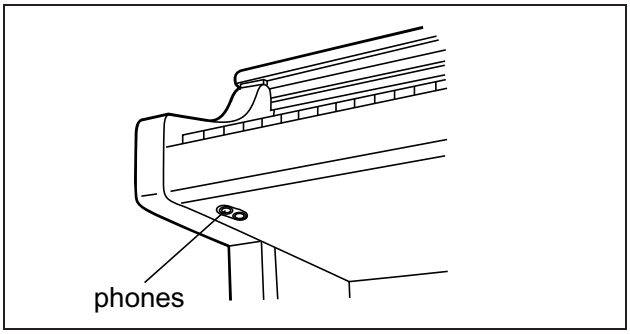
MIDI
These terminals are for connection to another MIDI instrument.

PEDAL IN
Connect the included pedal.

AUX IN (input level 0.5 Vrms, 6 kΩ)
Other instruments such as a rhythm machine or sound module can be connected to the piano so that the sound is output from the piano. To receive monaural sound, connect instruments to the **R/R+L** terminal.

LINE OUT (output level 1.5 Vrms, 600 Ω)
By plugging into a high-power amplifier, the sound can be reproduced at a high volume. (Use the **R/R+L** terminal when outputting monaural sound.)

phones × 2
(Beneath the keyboard, on the left side)
For silent practice, headphones may be used. When plugged in, the speaker system is automatically switched off, and sound is heard only through the headphones.



Symptoms which appear to be signs of trouble

The following changes in performance may occur in this instrument but do not indicate trouble.

	Phenomenon	Remedy
Sounds and effects	The buttons, keys, etc. malfunction.	• Turn off the **POWER** button once, then turn it on again. If this procedure is not successful, turn off the **POWER** button once. Then, while pressing the three lower left buttons in the **RHYTHM GROUP** section (**BALLAD**, **FUNK & FUSION** and **GOSPEL & BLUES**) at the same time, turn the **POWER** button on again. (Note that, in this case, all programmable settings, functions and memories return to their factory-preset status.)
	No sound is produced when the keys are pressed.	• The **MAIN VOLUME** is at the minimum setting. Adjust the volume with the **MAIN VOLUME** control. • The volumes for the selected parts are set to the minimum levels. Use the balance buttons to set the volumes of the relevant parts to appropriate levels. • The part is muted. • The local control for a part performed on the keyboard is set to OFF. Set the local control to ON.
	Only percussive instrument sounds are produced when the keyboard is played.	• In the **SOUND GROUP** section, the **DRUM KITS** button is on.
	The volume is very low when the keyboard is played.	• The volume setting in the **SEQUENCER** contents is very low. Follow the INITIAL procedure to reset the settings.
	Some sounds cannot be selected.	• When the GENERAL MIDI status is set to on, The sounds which can be selected and operation which can be executed are limited. Turn the GENERAL MIDI status off to return the instrument to its normal operation.
	The sound you hear is different from the sound you selected.	• This sometimes occurs when you play back **SEQUENCER** or **COMPOSER** data which was created on a different model, or when MIDI data is received from a connected instrument. Select the desired sounds again.
	The sustain does not work even when the sustain pedal is depressed.	• The sustain pedal is not connected. Connect the pedal cord firmly to the **PEDAL IN** terminal on the back of the instrument. • When the **SUSTAIN PEDAL** button is off, the sustain does not work even when the pedal is depressed. Turn on the **SUSTAIN PEDAL** button.
	The soft pedal does not operate properly. For example, when the pedal is depressed, the rhythm starts or a fill-in is played.	• Different functions can be programmed in this pedal. You can return the pedal to its original function by turning off the instrument once, or by using the PEDAL SETTING mode.

Phenomenon		Remedy
Rhythm	The rhythm does not start.	• The **RHYTHM VOLUME** sliding controller is set to **OFF**. Set the volume to an appropriate level. • The **DRUMS** volume is set to the minimum level. Use the balance buttons to set the **DRUMS** volume to an appropriate level. • A rhythm in **COMPOSER MEMORY** with no stored pattern was selected. Select a different rhythm. • The **PLAY** button in the **SEQUENCER** section is on. When you are not playing back the **SEQUENCER** performance, turn off the **PLAY** button. • CLOCK is set to MIDI. Set CLOCK to INTERNAL. • The rhythm does not work when the GENERAL MIDI mode is set to ON. Turn the GENERAL MIDI status off to return the instrument to its normal operation.
AUTO PLAY CHORD	No sound is produced for the automatic accompaniment.	• The **RHYTHM VOLUME** sliding controller is set to **OFF**. Set the volume to an appropriate level. • A rhythm in **COMPOSER MEMORY** with no stored pattern was selected. Select a different rhythm.
	No sound is produced for the automatic accompaniment, or only the sounds of some parts are produced.	• An **ACCOMP** part does not sound if its corresponding volume is set to the minimum level. Use the respective balance buttons to set the **ACCOMP 1**, **2** and **3** volumes to appropriate levels.
SEQUENCER	Storage is not possible.	• The remaining memory capacity of the **SEQUENCER** is 0. Follow the SONG CLEAR or TRACK CLEAR procedure to erase the memory.
	Multi-track storage is not possible.	• The playback track has been selected, but the **START/STOP** button has not been pressed. On the recording display, the track marked with a horizontal bar in the REC row is the track which is ready for recording; a track marked with a horizontal bar in the PLAY row is a track which is ready for playback. To record one track while listening to another (playback) track, press the **START/STOP** button to begin playback.
	The playback measure indication is different from when the performance was recorded.	• The number of measures corresponds to the time signature of the rhythm selected at the start of recording. To change the rhythm in the middle of the song, record the rhythm change in the RHYTHM part.

	Phenomenon	Remedy
COMPOSER	Storage is not possible.	• The remaining memory capacity of the **COMPOSER** is 0.
	Setting the time signature and number of measures is not possible.	• The time signature and number of measures cannot be changed for a pattern which is currently recorded in the **COMPOSER**. If you wish to change the time signature and/or measure data, first follow the procedure to clear the memory.
	The playback timing of the rhythm pattern is different from the timing with which it was recorded.	• The QUANTIZE function was on when the pattern was recorded and the timing was automatically corrected. Set the quantize level to a smaller note unit or to OFF when recording.
Disk Drive	The Disk Drive produces a noise during recording or playback.	• This occurs when the Disk Drive is reading a disk. It does not indicate a problem.
	When the procedure to load from a disk is performed, the contents of this instrument's memory are erased.	• When performing the load operation from a disk, this instrument's memory changes to that of the data loaded from the disk. If you wish to preserve a song which is stored in this instrument's memory, save it on a disk before performing the load procedure.
Other	Noise from a radio or TV can be heard.	• This sometimes occurs when electrical equipment such as a radio or TV is used near the instrument. Try moving such electrical equipment further away from the instrument. • The sound may be coming from a nearby broadcast station or amateur radio station. If the sound is bothersome, consult your dealer or service center.
	The cabinet becomes warm during use.	• This instrument has a built-in power source that heats the cabinet to some degree. This is not an indication of trouble.

Error messages

Display		Contents
00	WRONG DISK!	The data on the disk that you are using is for a different product.
01	LOAD ERROR TRY AGAIN!	An error has occurred while the disk was loading. Please try again.
02	NO DISK!	There is no disk in the Disk Drive.
03	FILE EMPTY!	The file that you tried to load is empty.
04	SAVE ERROR TRY AGAIN!	An error has occurred while the data was being saved. Please try again.
05	WRITE PROTECTED!	The disk that you are using is write protected. Please remove the write protection and try again.
06	DISK FULL!	The disk that you are using is full. Please use another disk.
07	FORMAT ERROR TRY AGAIN!	An error has occurred while the disk was formatting. The disk that you are using may be faulty. Please try formatting another disk.
08	DATA IS COPY PROTECTED!	The data on this disk is copy protected.
09	ALREADY COPY PROTECTED!	The data on this disk is already copy protected.
11	SEQUENCER DATA ERROR!	There is an error in the **SEQUENCER** data. Playback is not possible.
12	MEMORY FULL!	The memory is full. No more data can be recorded.
13	CHANGE IMPOSSIBLE!	It is not possible to change the time signature of a **COMPOSER** pattern after it has been recorded. If you want to proceed, you must first clear the entire **COMPOSER** pattern.
14	TIME SIG MISMATCH!	The time signature of the pattern from which you are copying is different from the **COMPOSER** memory that you are using. Either: Change the time signature of the **COMPOSER** memory or: Copy from a pattern that has the same time signature.
15	TIME SIG ALREADY SET	The time signature has already been set. It cannot be changed.
16	TRACK EXISTS!	The specified track already exists. It is impossible to assign two tracks to that part.
17	FILE TOO LONG!	This song is too long to be saved as an SMF file.
18	SMF LOAD ERROR!	The SMF file that you tried to load exceeds the memory capacity of this instrument and cannot be loaded. The destination **SEQUENCER** memory has been cleared.
22	"ALL" OPTION ONLY AVAIL	To load data which was saved on an older model Technics instrument, set the load option to "ALL".
23	NO SEQUENCER DATA!	There is no data in the **SEQUENCER**.
24	SMF CONVERT ERROR!	An error occurred in the SMF conversion.
25	NOT STANDARD MIDI FILE!	This disk is not in the Standard MIDI File data format.
26	SMF CONVERT ERROR!	SMF conversion is possible only for files with a time base (PPQ resolution) of 24/48/96/192/288/384.

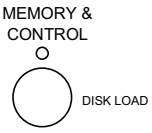
Display		Contents
27	SMF FORMAT ERROR!	FORMAT 2, 3, 4 ... SMF data cannot be used.
28	RHYTHM & CHORD ONLY!	Step record can be activated only for tracks to which the RHYTHM or CHORD part has been assigned.
31	TRACK ASSIGN MISMATCH!	Special tracks such as CHORD/APC, RHYTHM and CONTROL exist in the song from which you are copying and are incompatible with the destination song because it is in the GM mode.
32	MEAS/T. SIG MISMATCH!	The **COMPOSER** pattern you have chosen has a different time signature or number of measures from the other patterns in this **COMPOSER CHORD MAP**. All of the **COMPOSER** patterns used in a **COMPOSER CHORD MAP** must have the same time signature and number of measures.
33	NOT ENOUGH AVAIL MEMORY	The song that you have tried to load exceeds the this instrument's available memory and cannot be loaded. The selected **SEQUENCER** song memory has been cleared. Please clear existing songs in the instrument's memory using SONG CLEAR to make more memory available, and try again.
34	THIS FILE IS SMF FORMAT1!	This is an SMF FORMAT 1 file. Direct Play and Sequencer Medley are not available for this file.
36	RKB/LKB: REC IMPOSSIBLE!	RKB and LKB are special tracks for compatibility with sequencer data from previous PR products. They cannot be edited or recorded on.
37	RE-ASSIGN RKB/LKB!	RKB and LKB are special tracks which cannot be used in conjunction with RIGHT 1, RIGHT 2, LEFT and APC tracks. Please re-assign RKB and LKB to any other part and try again.
38	NO CHORD TRACK!	[Chord] was selected in the Step record mode of the **SEQUENCER**, but there is no track to which the [Chord] part has been assigned.
39	NO RHYTHM TRACK!	[Rhythm] was selected in the Step record mode of the **SEQUENCER**, but there is no track to which the [Rhythm] part has been assigned.

Initialize

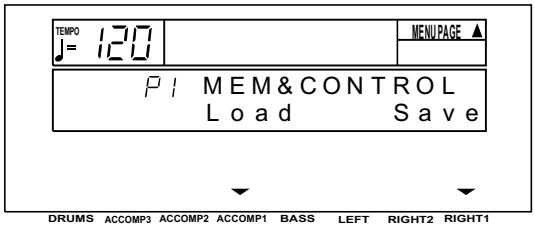
This instrument has many settable functions and storable memories. However, you can return the settings and memory to the factory-preset status.

INITIAL

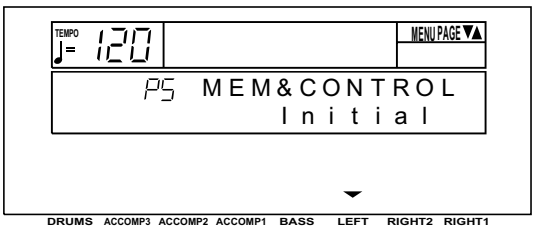
1. Press the **MEMORY & CONTROL** button to turn it on.



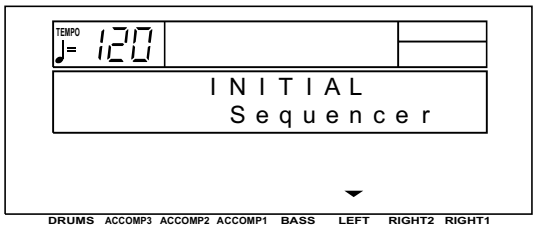
- The display changes to the following.



2. Use the **PAGE** ∧ and ∨ buttons to select [P5 Initial].
- This display looks similar to the following.



3. Press either **LEFT** button.
- The display looks similar to the following.



4. Use the **LEFT** ∧ and ∨ buttons to select the desired type of initialization.
- Select from [Total] (includes all the following data), [Composer], [Sequencer], [Part Setting], [MIDI Setting] or [Panel Memory].

5. Press the **EXECUTE** button.
- The display changes to the confirmation display. Press either **LEFT** (Yes) button if you wish to execute the initialization. Press either **RIGHT 1** (No) button if you wish to cancel the procedure.

- When you press either **LEFT** (Yes) button, initialization begins. When initialization is completed, "COMPLETED!" is shown on the display and this instrument returns to the normal performance mode.

- You can also reset all the instrument settings with the following procedure: Turn off the **POWER** button once. Then, while pressing the three lower left buttons in the **RHYTHM GROUP** section (**BALLAD**, **FUNK & FUSION** and **GOSPEL & BLUES**) at the same time, turn the **POWER** button on again.
- All the instrument settings may be initialized when the power is turn on, for example, if the effective time of the backup memory has been exceeded.

■ **About the backup memory**

The settings and memories are maintained for approximately 80 minutes after the power to this instrument is turned off. If you wish to keep the memory contents, before you turn off the instrument, use the SAVE procedure to store the desired data on a disk for recall at a later time.

- The backup memory does not function until the power has been on for about 10 minutes.
- When you quit the operating mode, a warning display may appear to remind you to save the data.

Power on settings

When the **POWER** button of this instrument is turned on, the settings below are automatically set to those suitable for piano performance.

PLAY STYLE: **PIANO MODE**
Sound: **GRAND PIANO**
TRANSPOSE: C
SUSTAIN PEDAL: On
SYNCHRO START: Off
MINIMUM RANGE: On
All PART SETTING items for the **RIGHT 1** part:
Appropriate values
PEDAL SETTING:
Left: SOFT

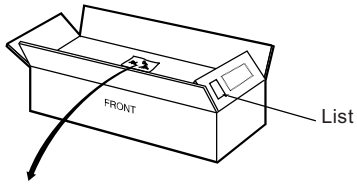
- When you turn the power on, you can recall all the settings which were in effect at the time you turned the instrument off: while depressing the sustain (right) pedal, turn on the power.

Assembly

Follow the steps below to assemble your Technics piano. Make sure you are using the correct parts and that they are in the correct direction.

- At least 2 people are required for assembly.
- To disassemble the piano, reverse the procedure.

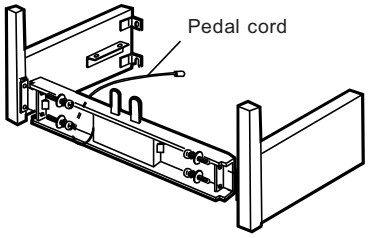
1. Remove the packing and take the parts out of the carton. Confirm that all the parts on the printed list are present.



2. The following parts are in the screw kit.

Brass-colored screws 4
Black screws.....8
Clamps 3

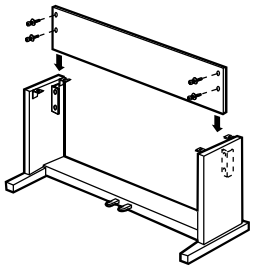
3. Affix the right and left side planks to the pedal box.



(1) Use the 4 brass-colored screws to secure the planks.
(2) Loosen the pedal cord, stowed on the inner side of the pedal box, and extend it.

4. Affix the cross bar.

- Use 4 black screws to affix the cross bar to the side planks.

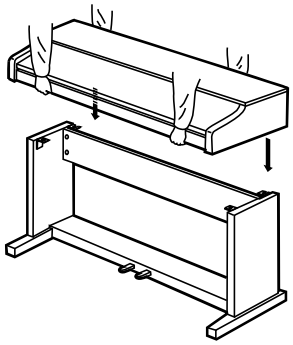


5. Place the piano body on the stand.

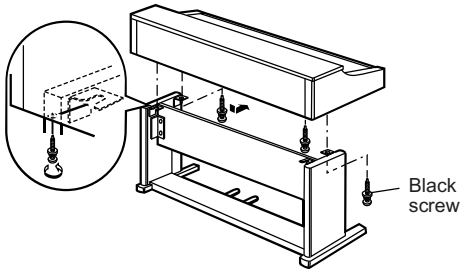
WARNING:
Avoid pinching your fingers.

Note 1
Holding the piano body at least 10 cm in from the edge, place it on the stand so that it does not fall off.

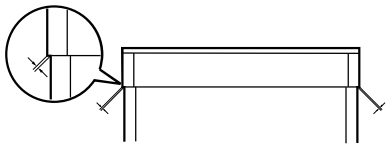
Note 2
If the piano body is placed too far to the right or left, or to the front or back, it will become unstable.



6. Secure the piano body to the stand.

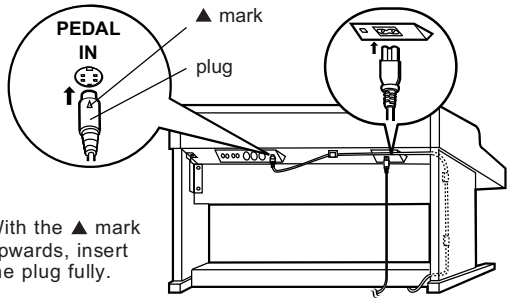


(1) Insert 2 black screws in the 2 rear screw holes on the underside of the piano body, and turn each screw 5 or 6 times. Push the piano body forward so that the screws are fully inserted in the cutout of the metal piece on either side plank. (This enables you to easily position the piano body on the stand.)
(2) Adjust the piano body so that the right and left sides project evenly over the stand.



(3) Positioning the piano body on the stand, confirm that the 4 screws can easily be inserted.
(4) Tighten the 4 black screws securely.

7. Connect the pedal cord and power cord to the terminals.



(1) Plug the pedal chord and power cord into the terminals on the rear of the piano.
(2) Remove the backing from the clamps and affix them as shown in the figure. Secure the pedal cord to the clamps.

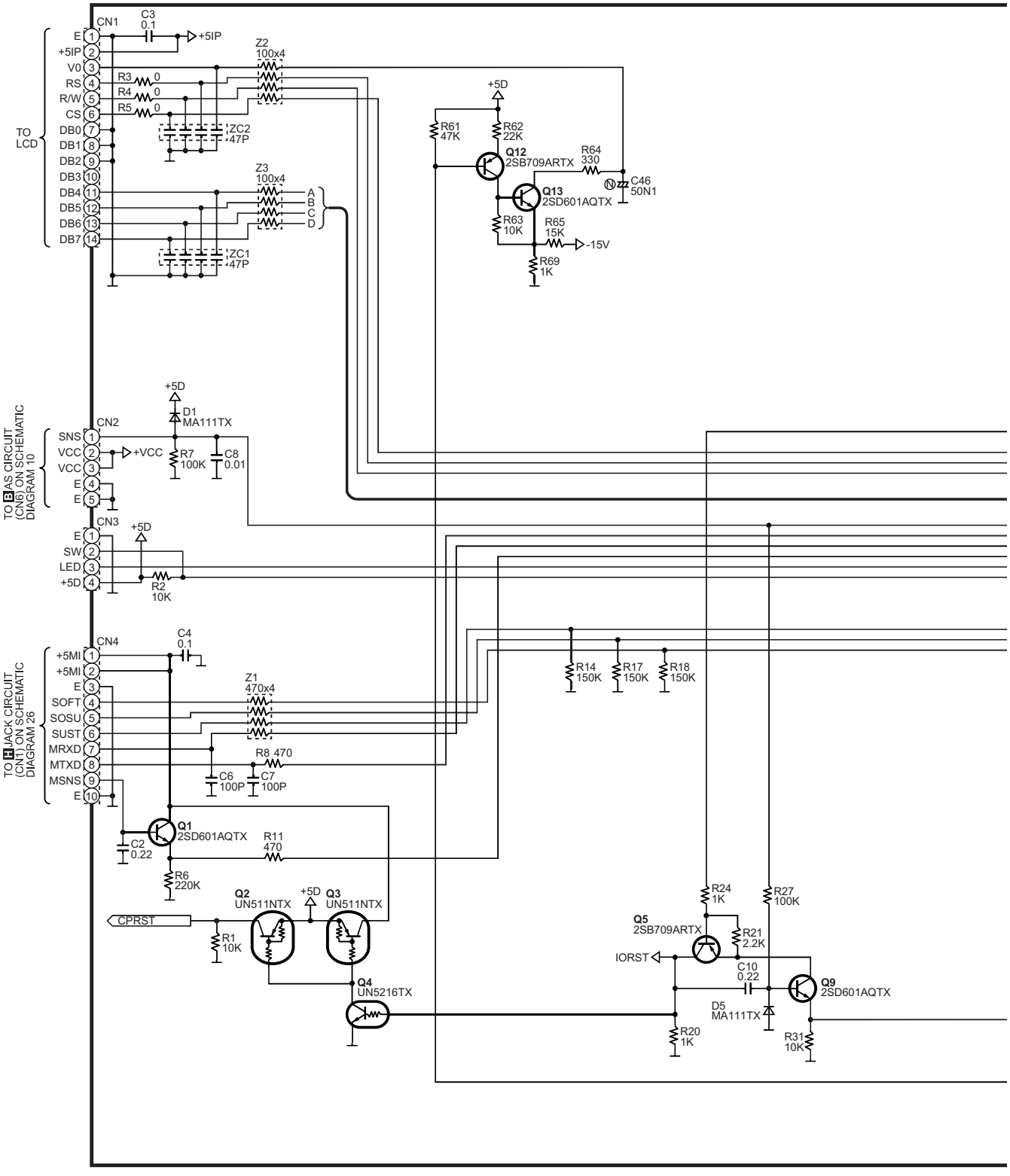
Confirm: After assembling, check these points.

- Are any parts left over?
  → Check the assembly procedure again.
- Does the piano rattle when it is rocked?
  → Make sure all the screws are securely tightened.
- Is the power cord firmly inserted?
  → Check again.
- Is the plug of the pedal cord inserted as far into the connector terminal as it will go?
  → If it is not completely inserted, the sustain and other pedal functions may not work.
- When the piano has been moved or transported, retighten the screws securely.

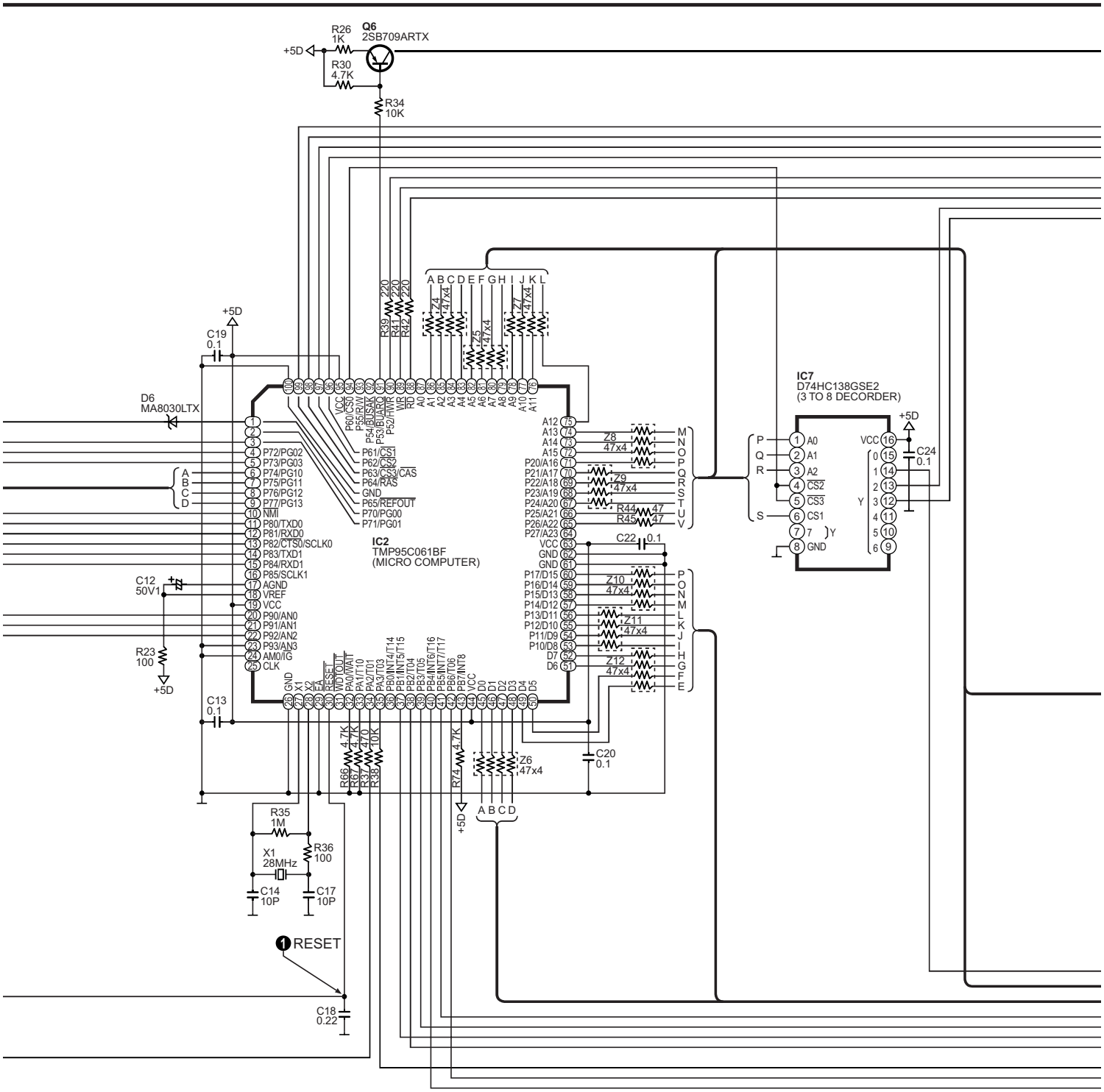
SCHEMATIC DIAGRAM-1

NOTE:
The number which noted at the connectors on the schematic diagram as
"SCHEMATIC DIAGRAM-1" or "SCHEMATIC DIAGRAM-2"
indicates the schematic diagram serial number located on the left corner in the schematic diagram.

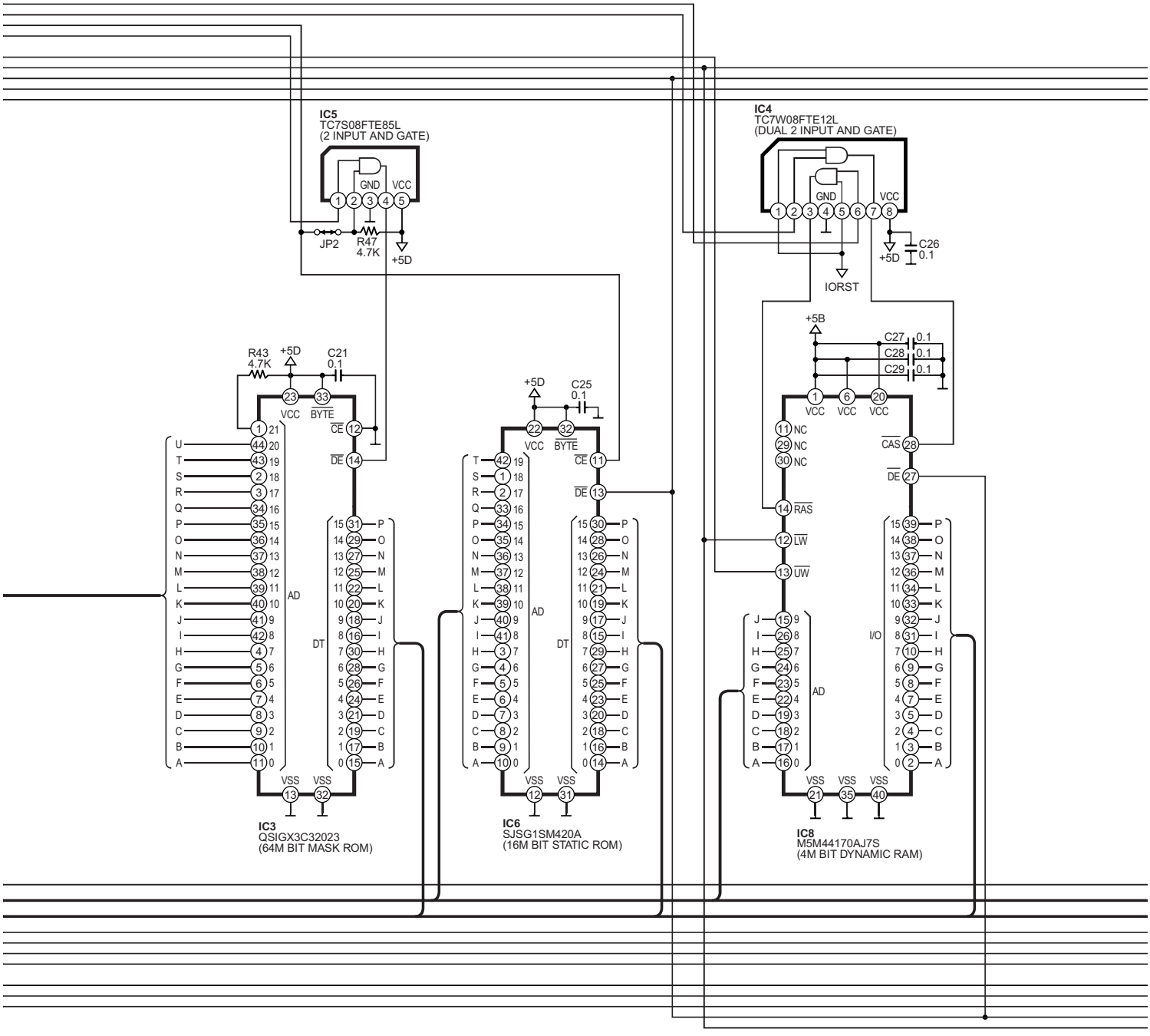
A MAIN(CPU) CIRCUIT



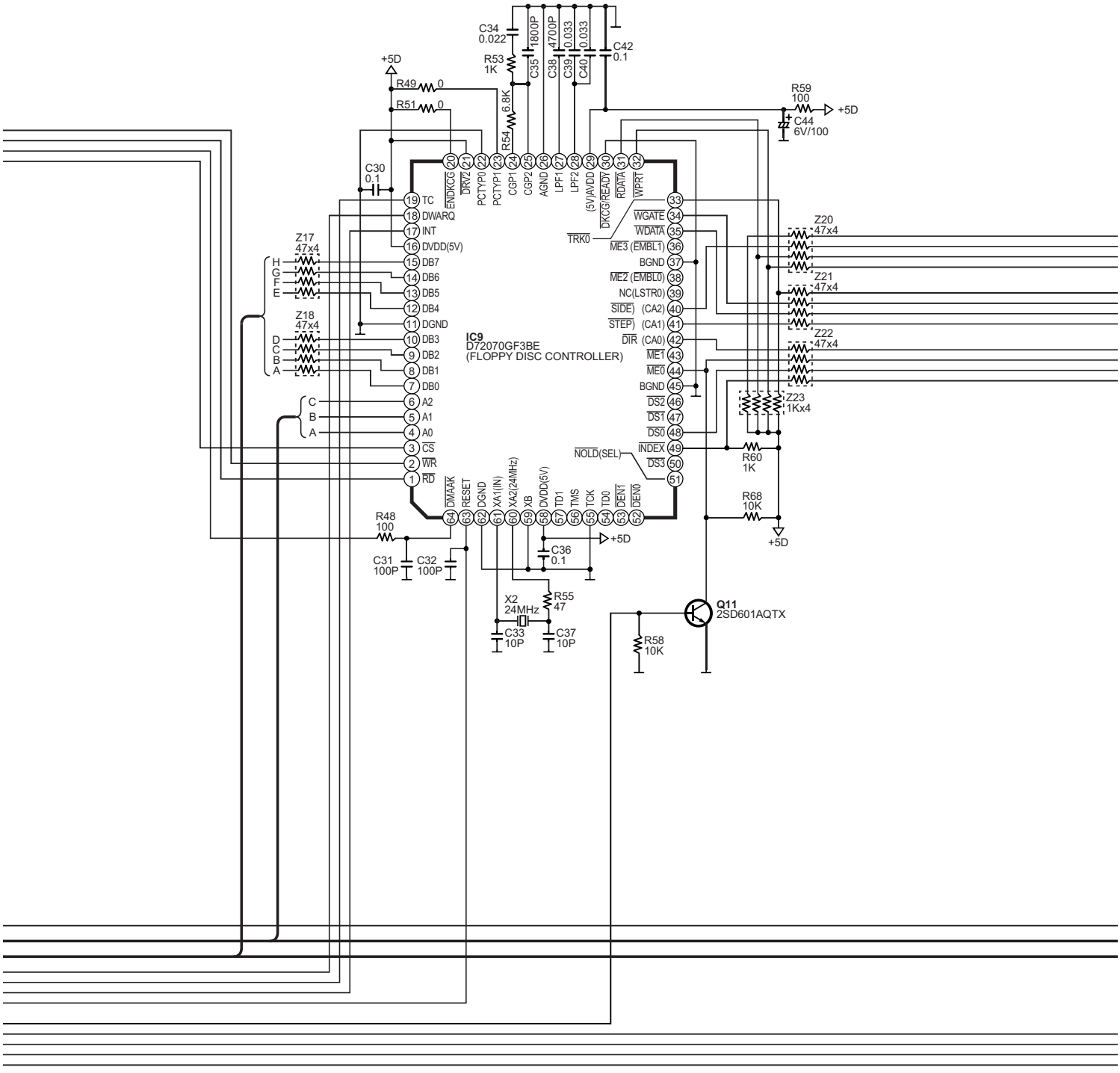
SCHEMATIC DIAGRAM-2



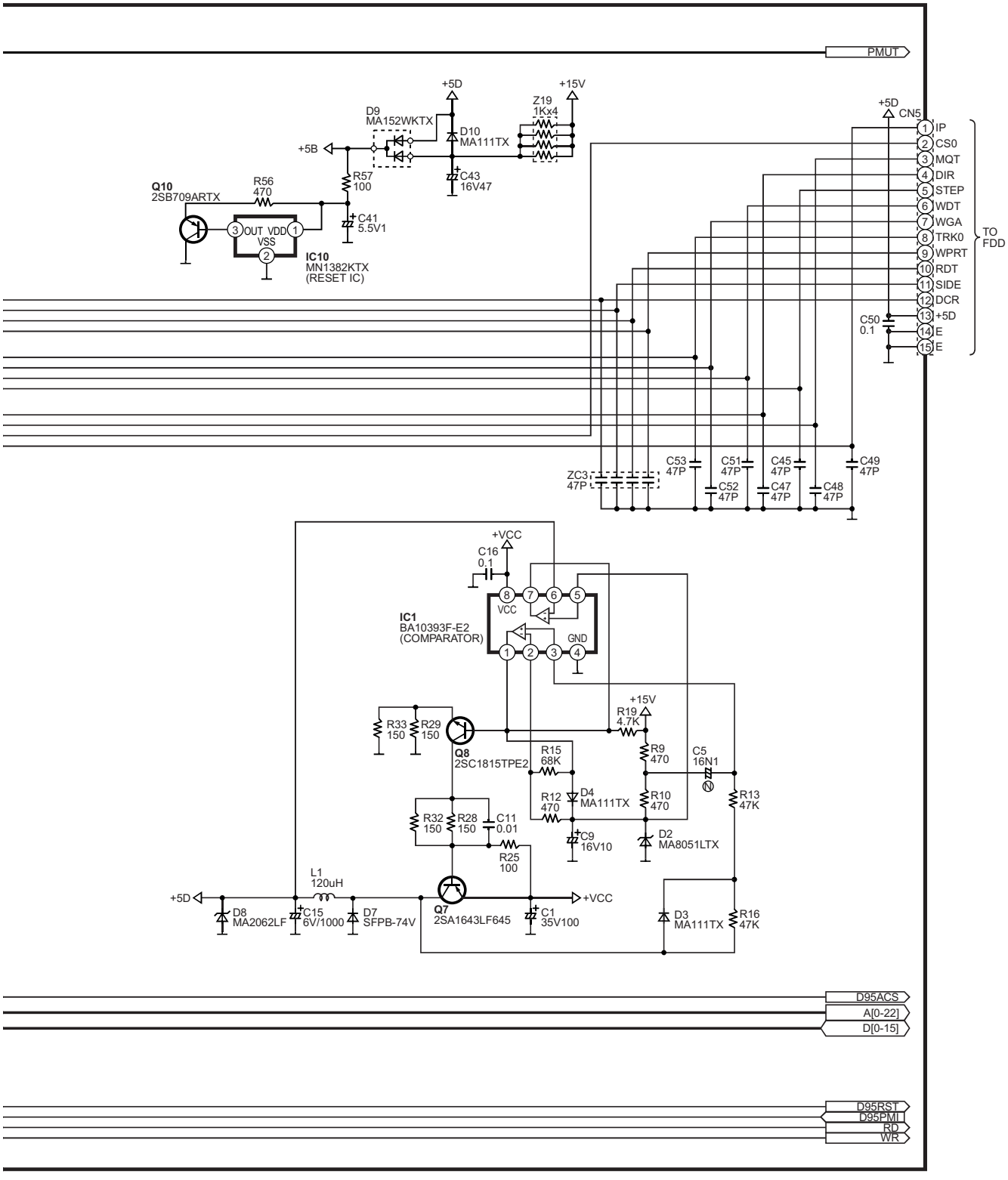
SCHEMATIC DIAGRAM-3



SCHEMATIC DIAGRAM-4

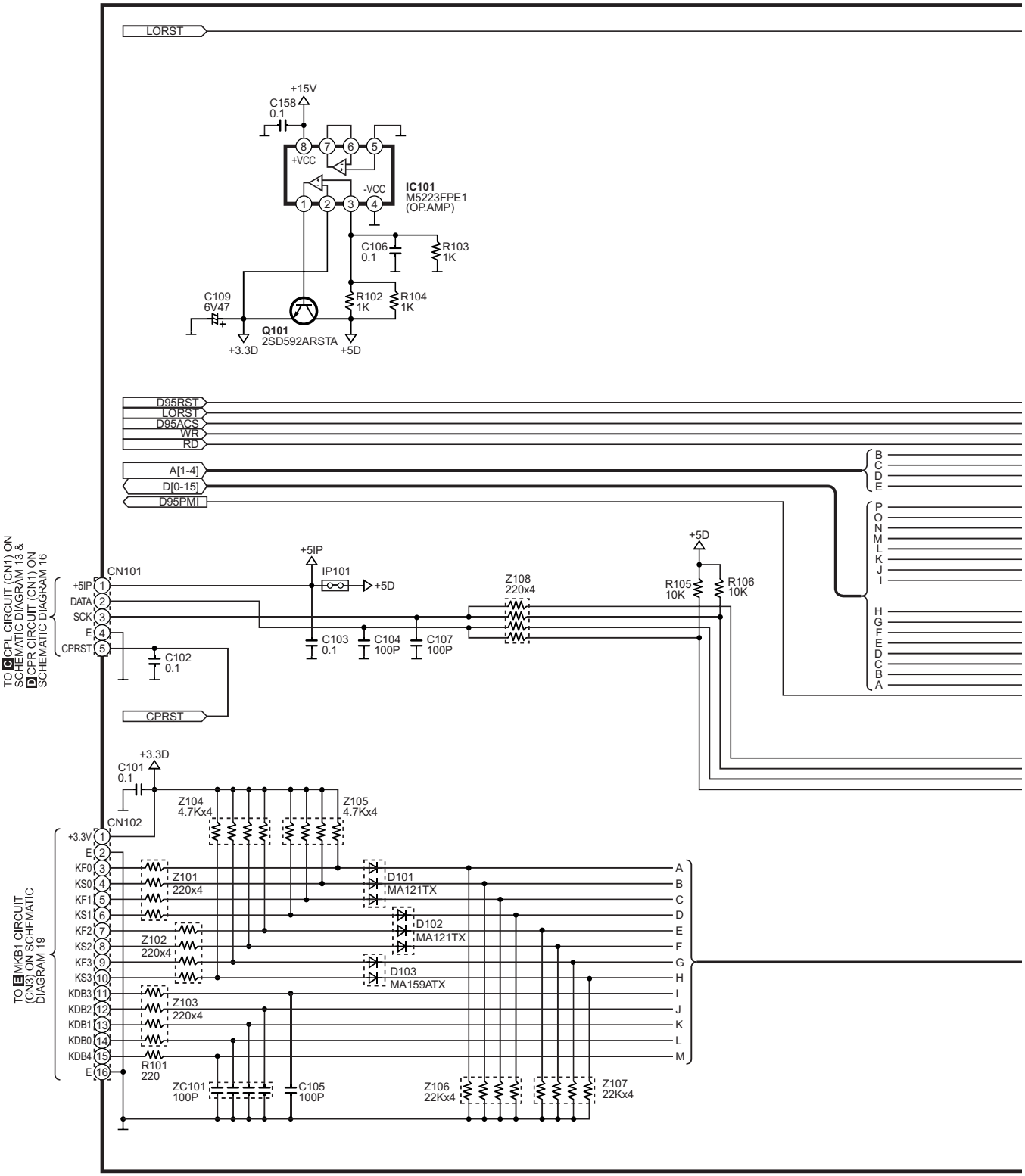


SCHEMATIC DIAGRAM-5

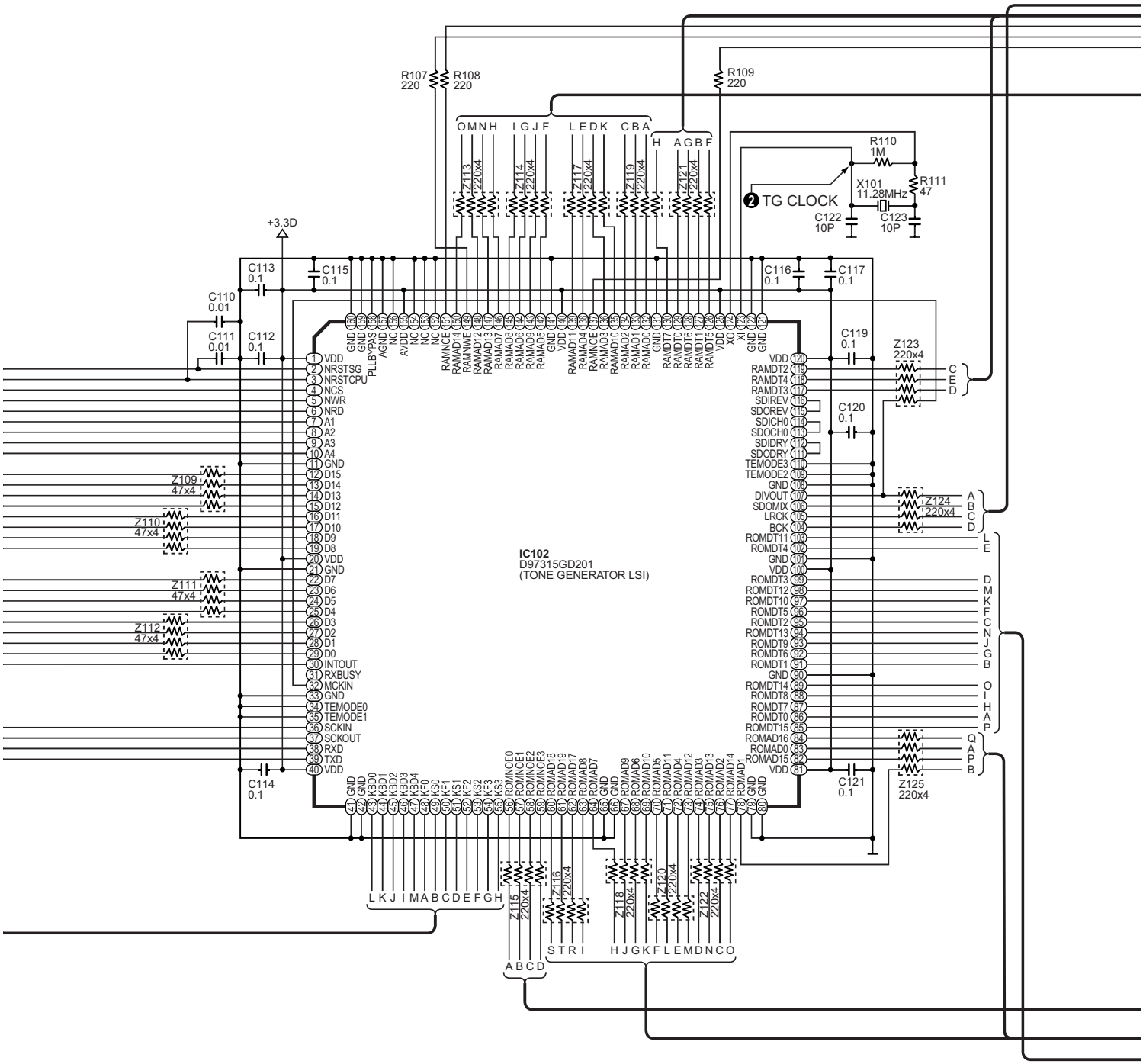


SCHEMATIC DIAGRAM-6

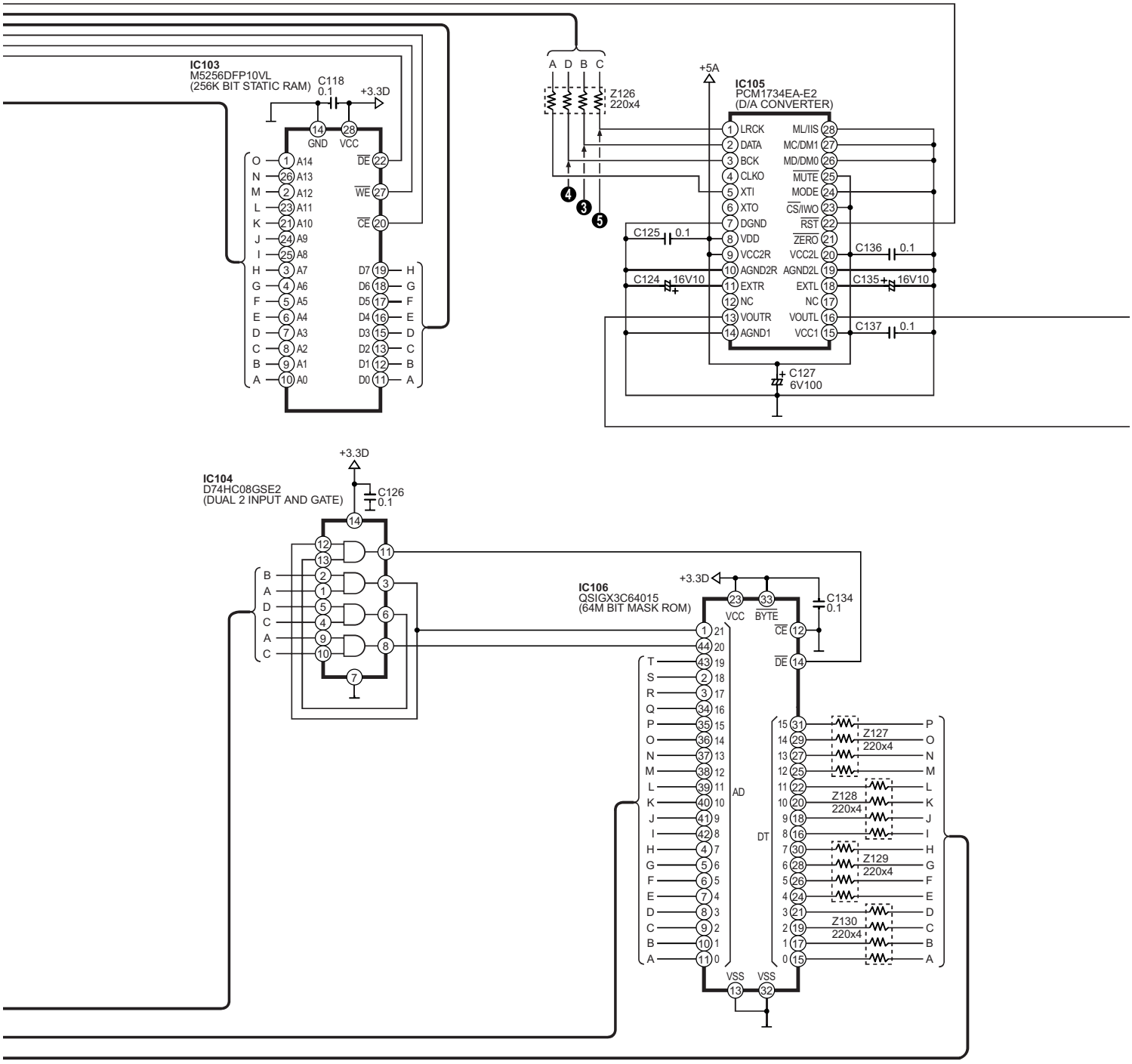
A MAIN(TG) CIRCUIT



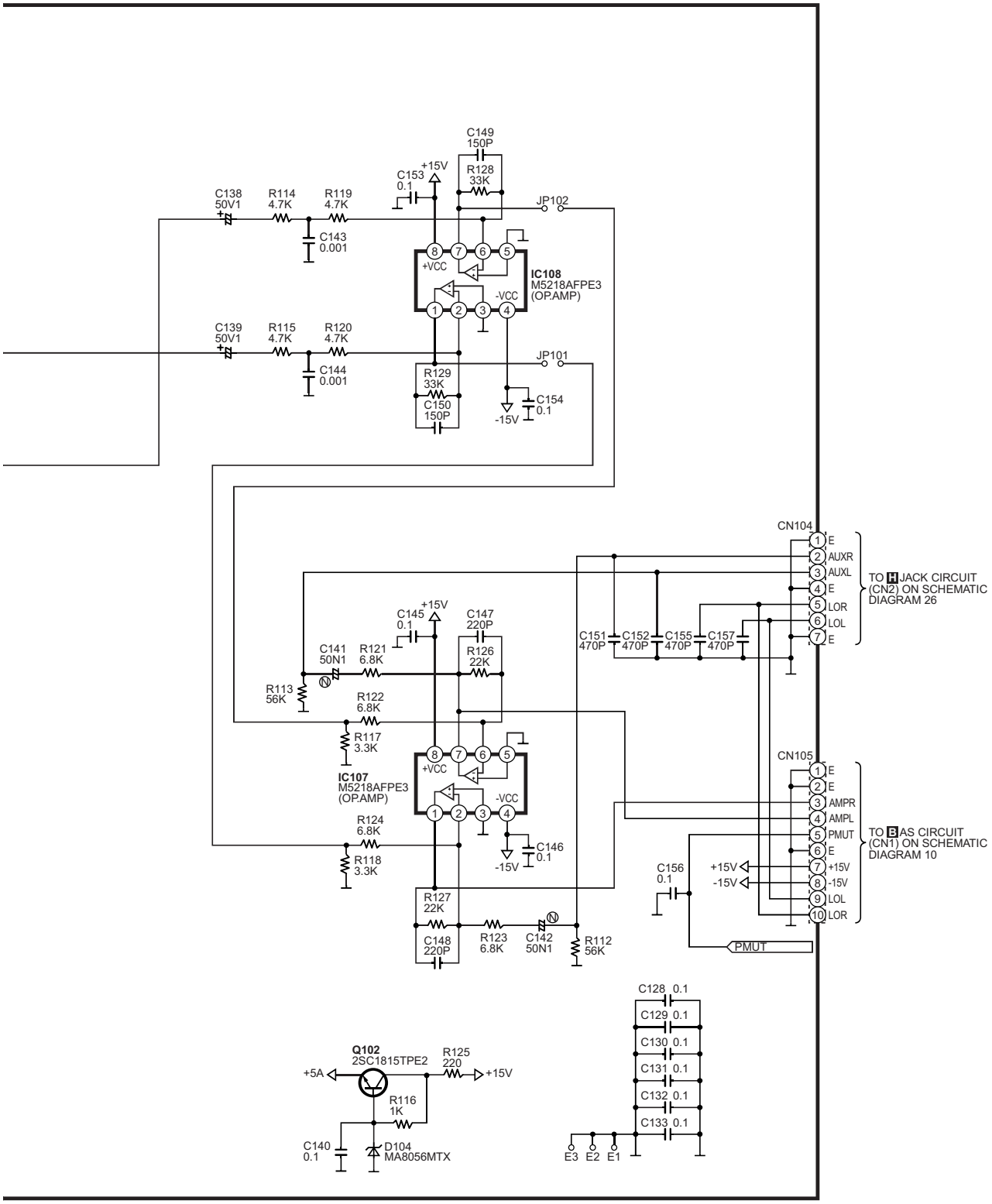
SCHEMATIC DIAGRAM-7



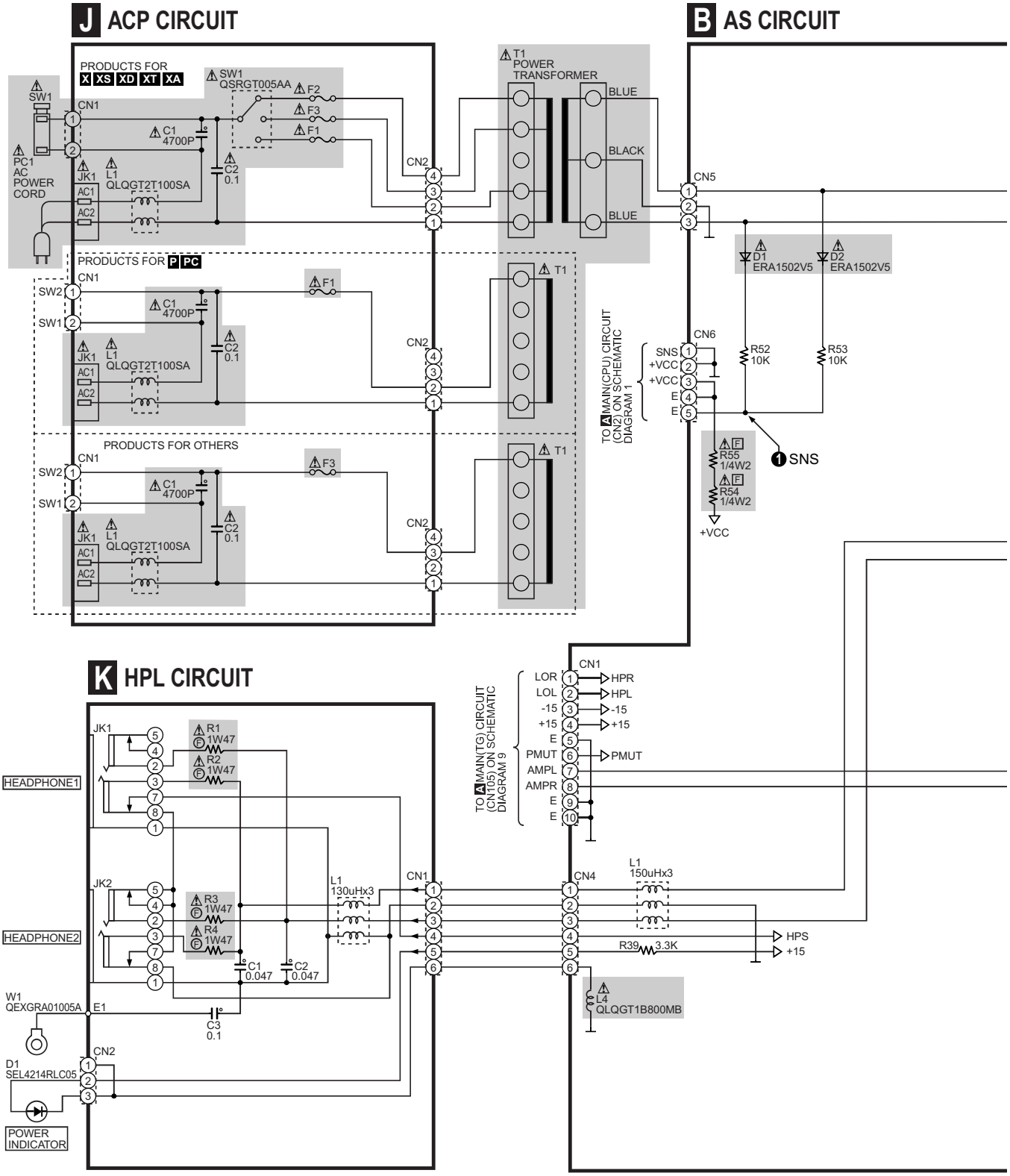
SCHEMATIC DIAGRAM-8



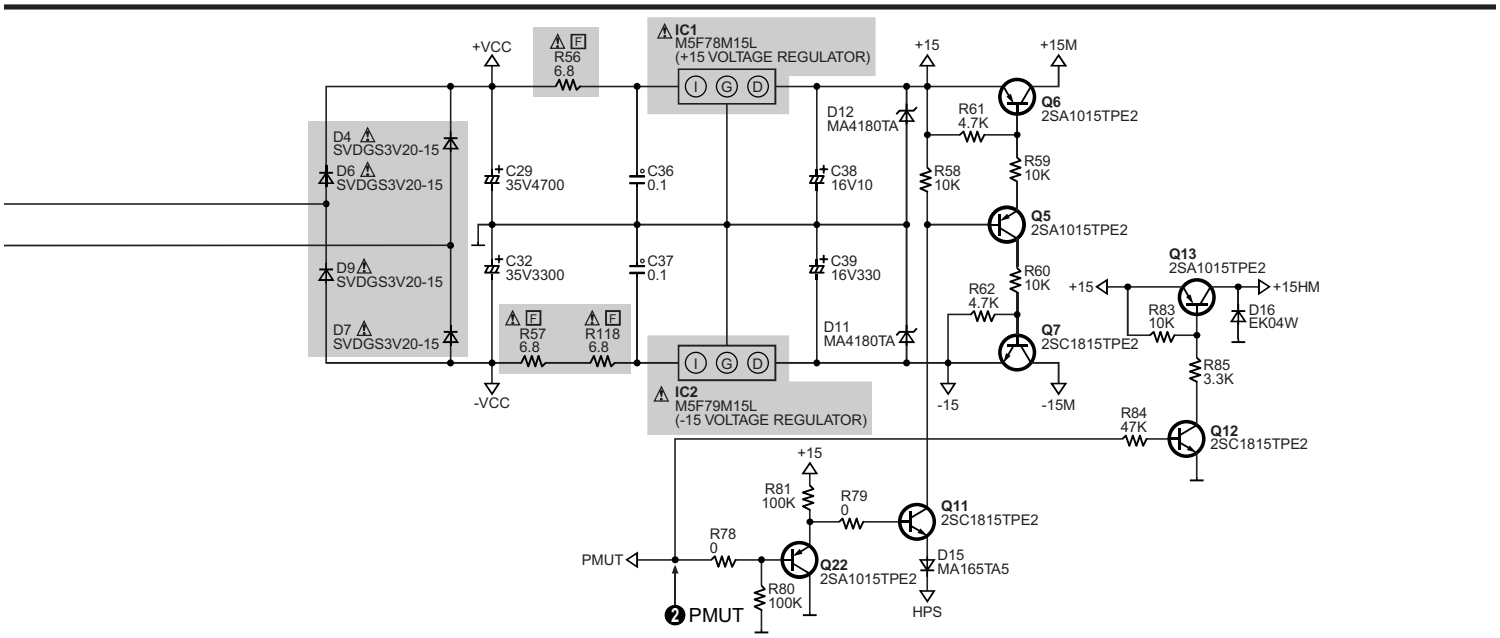
SCHEMATIC DIAGRAM-9

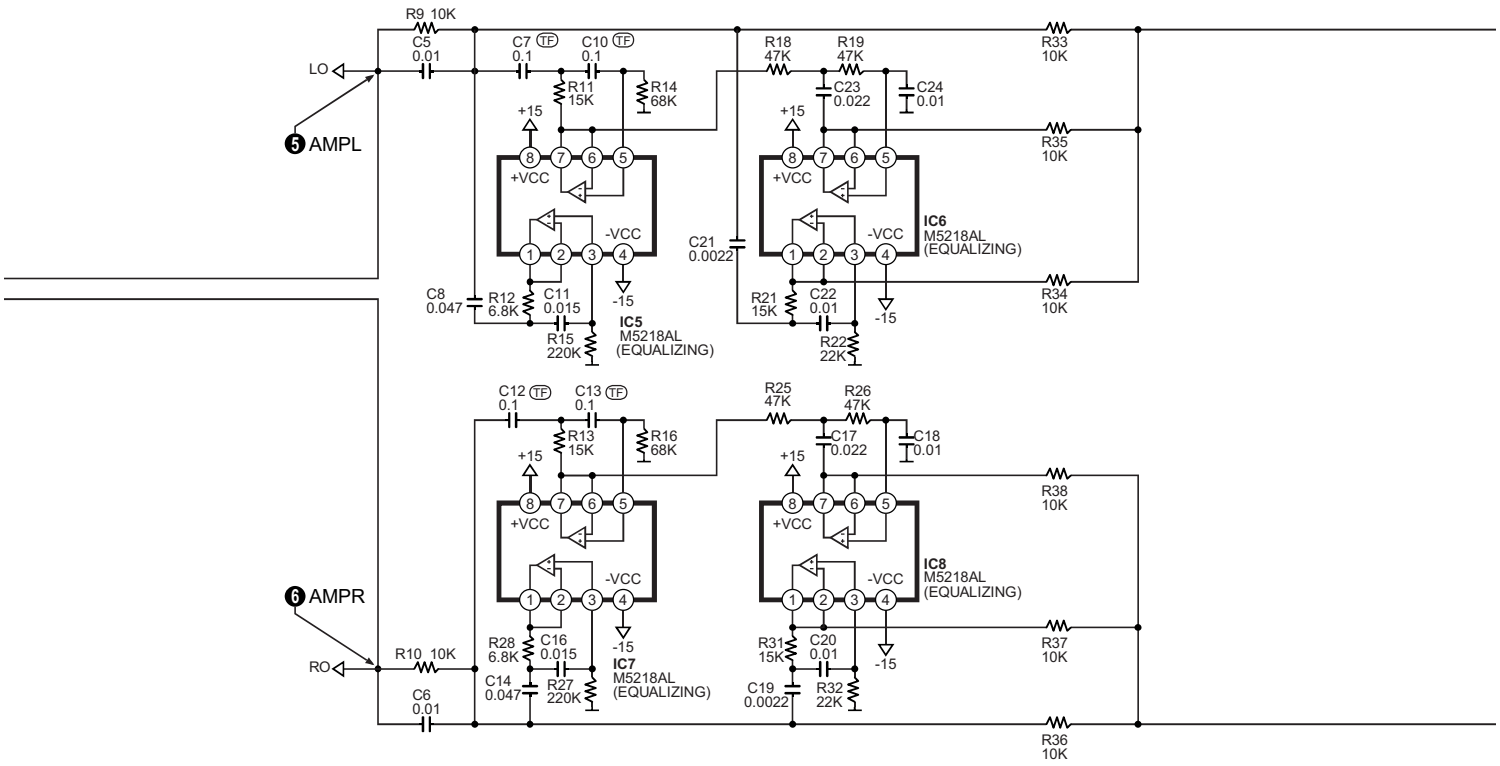


SCHEMATIC DIAGRAM-10

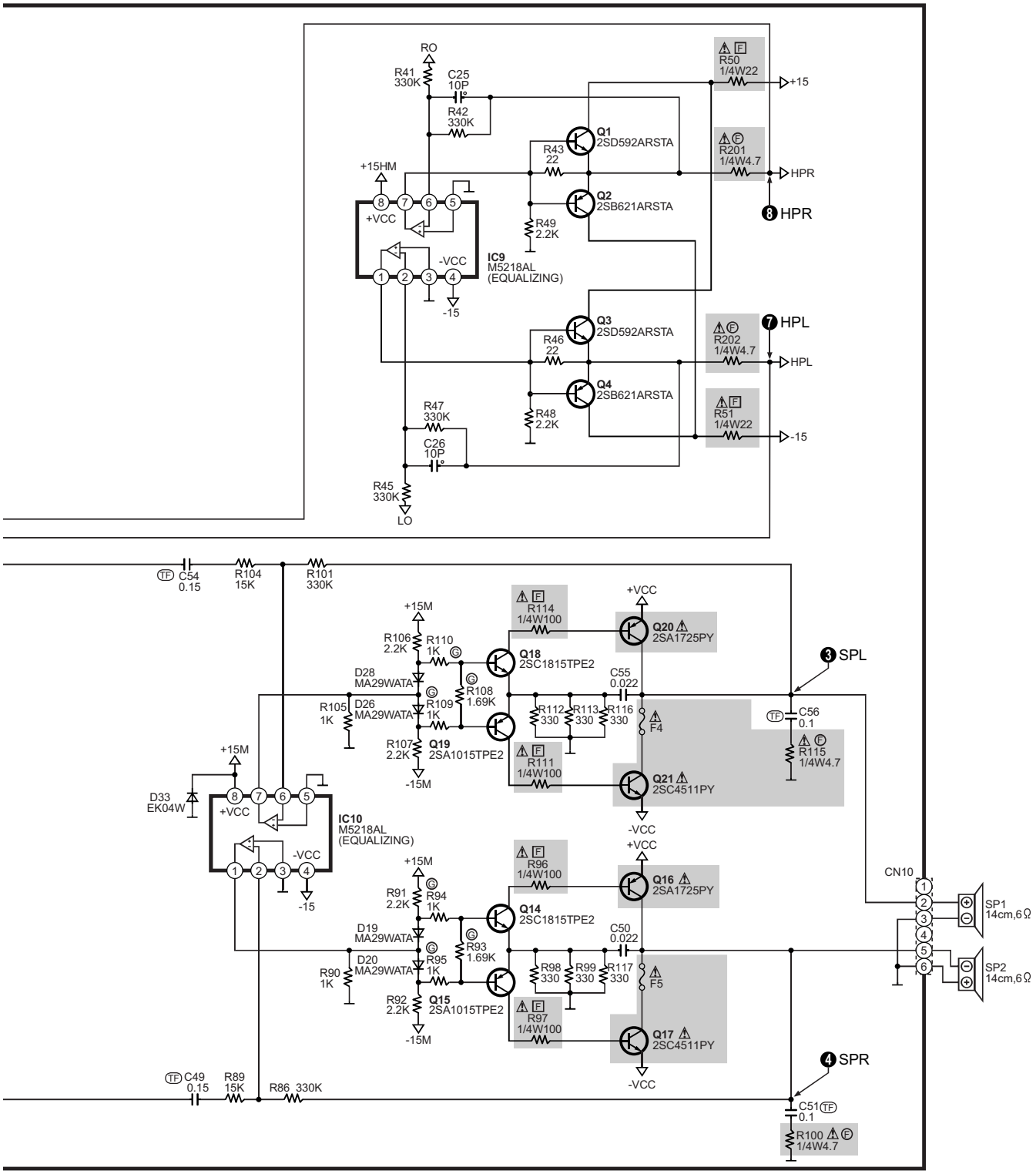


SCHEMATIC DIAGRAM-11



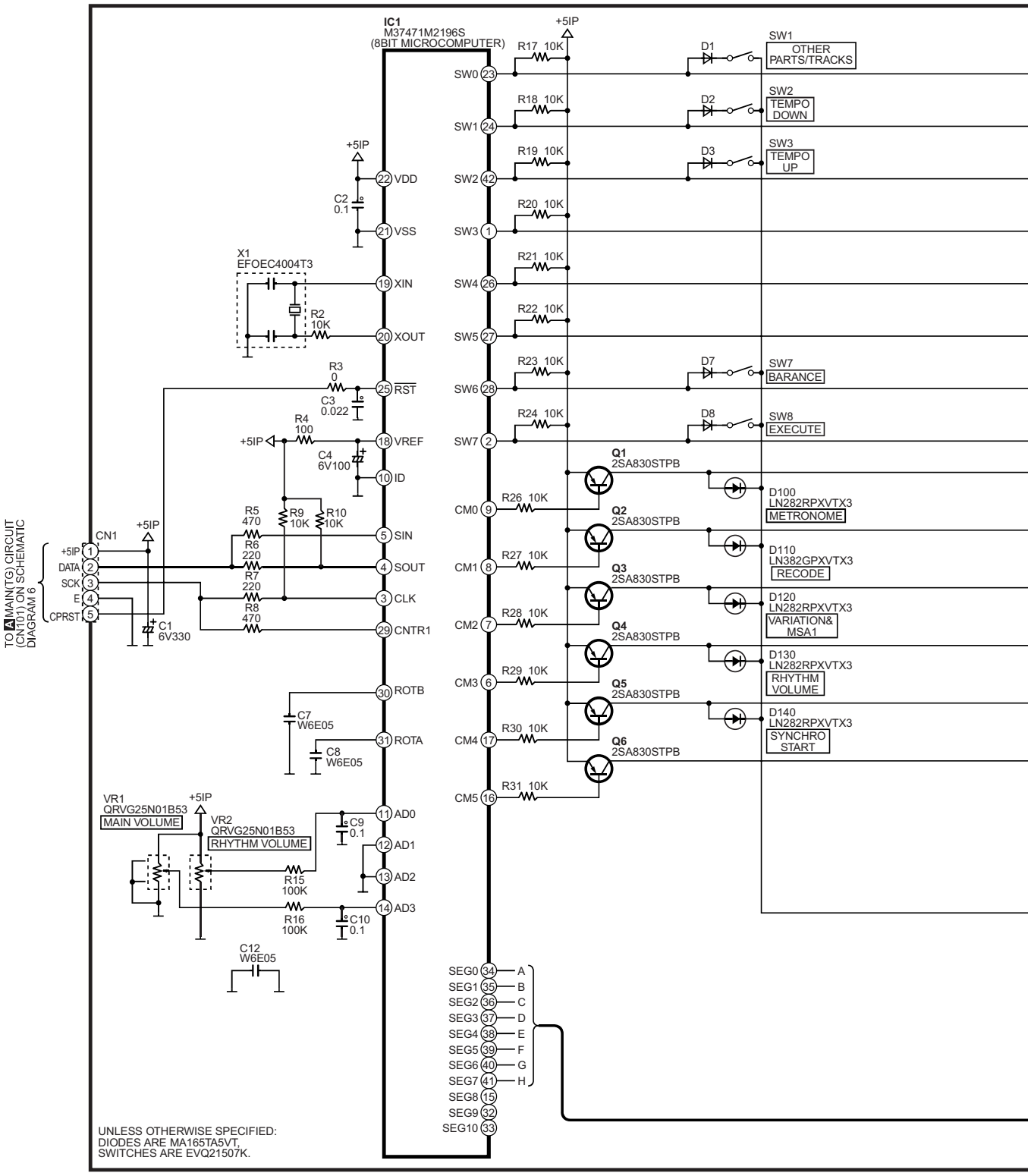


SCHEMATIC DIAGRAM-12

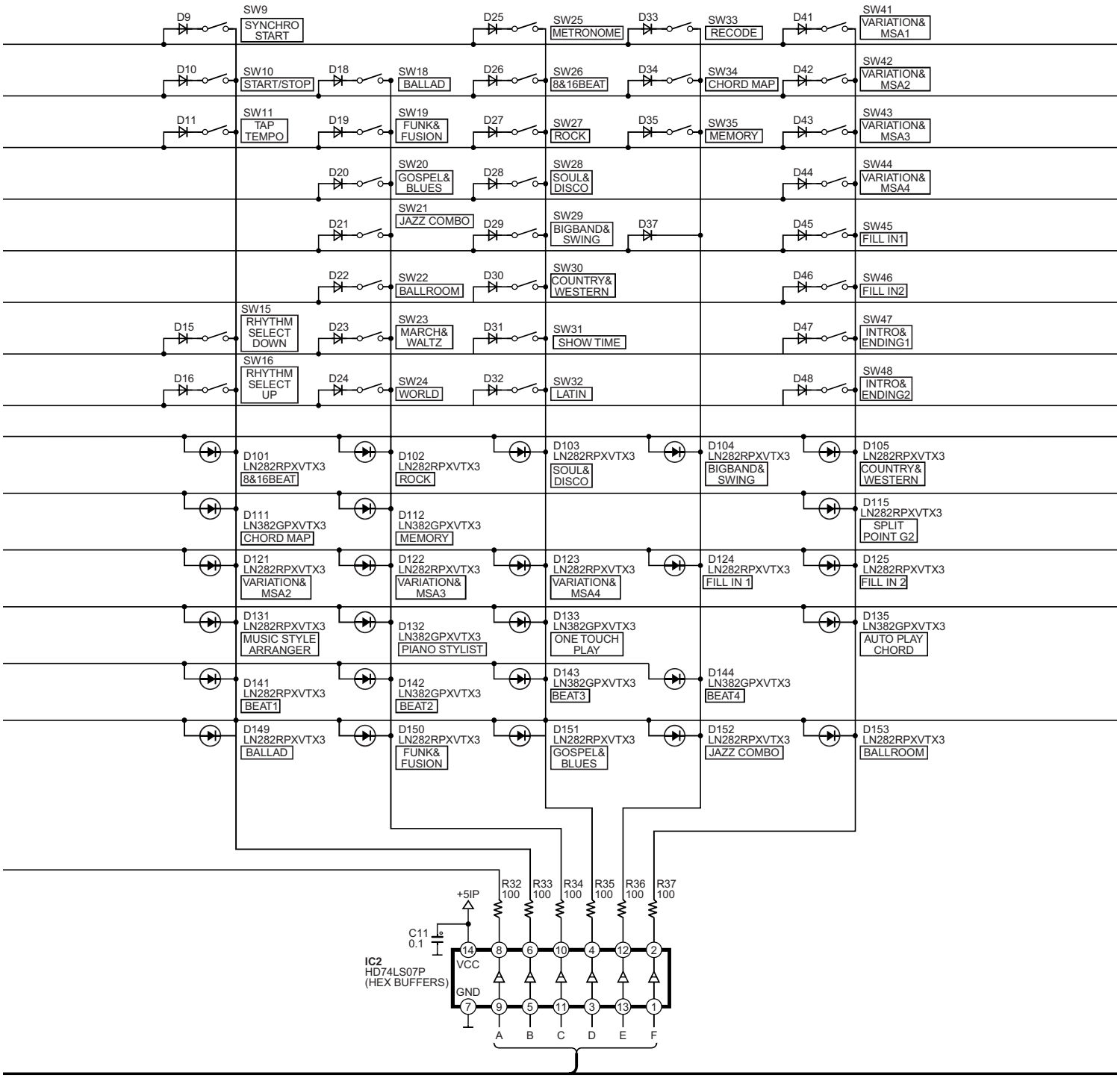


SCHEMATIC DIAGRAM-13

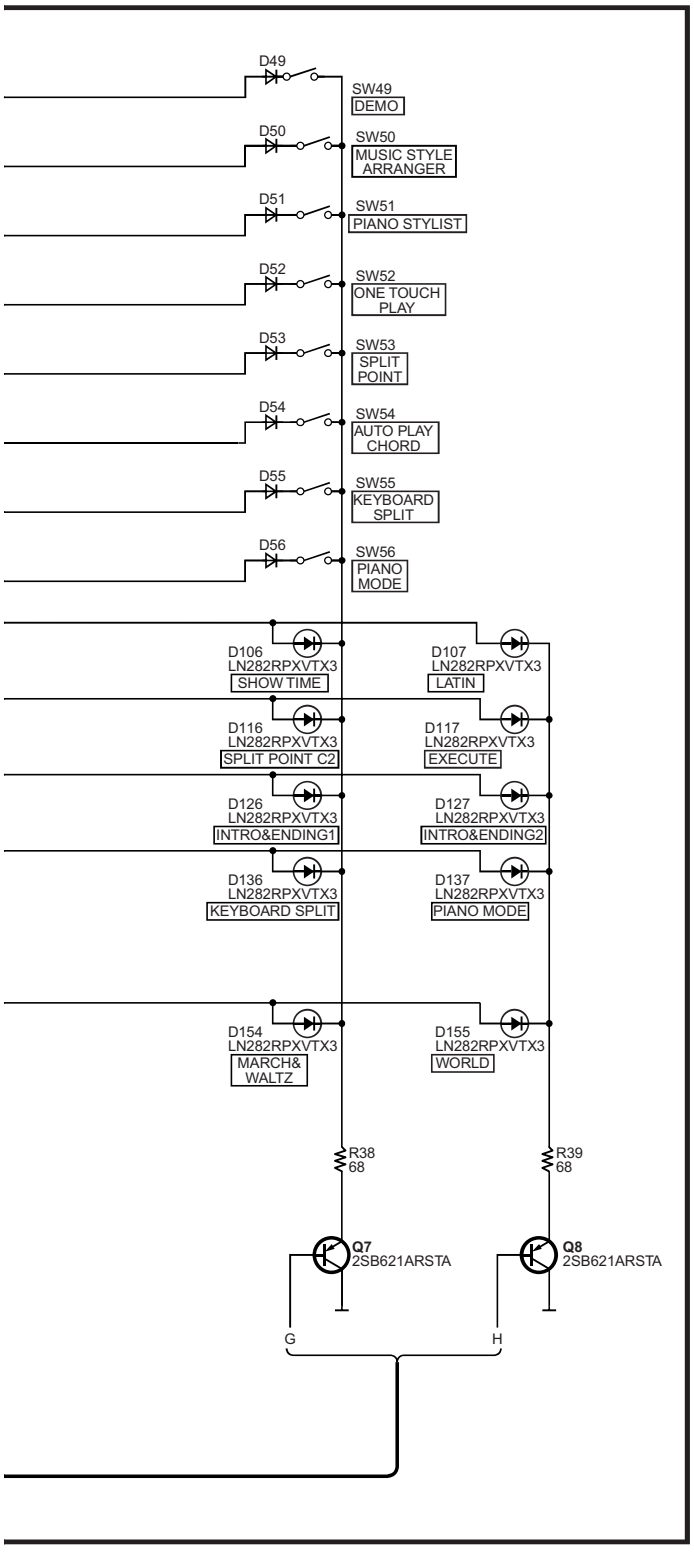
C CPL CIRCUIT



SCHEMATIC DIAGRAM-14

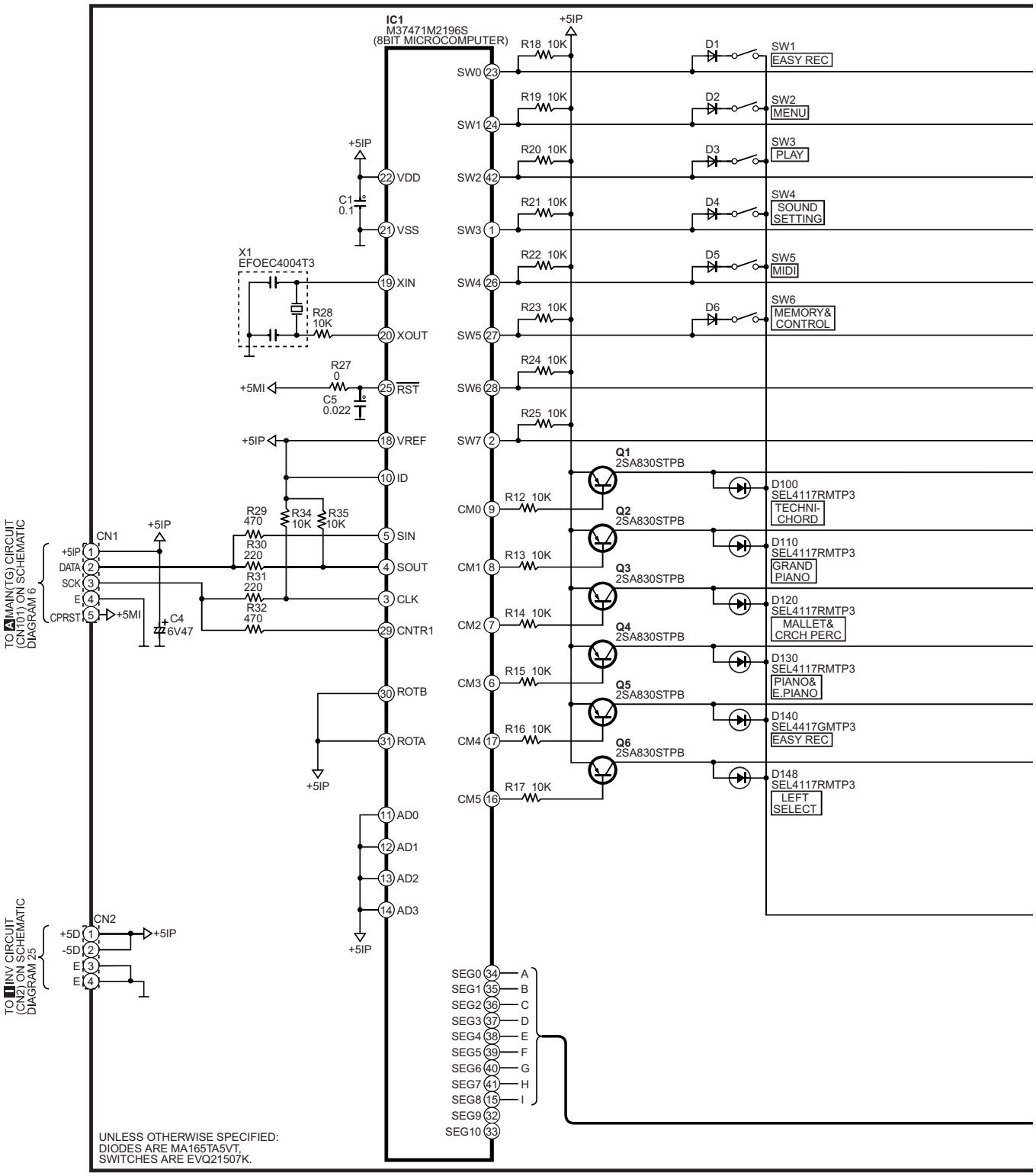


SCHEMATIC DIAGRAM-15

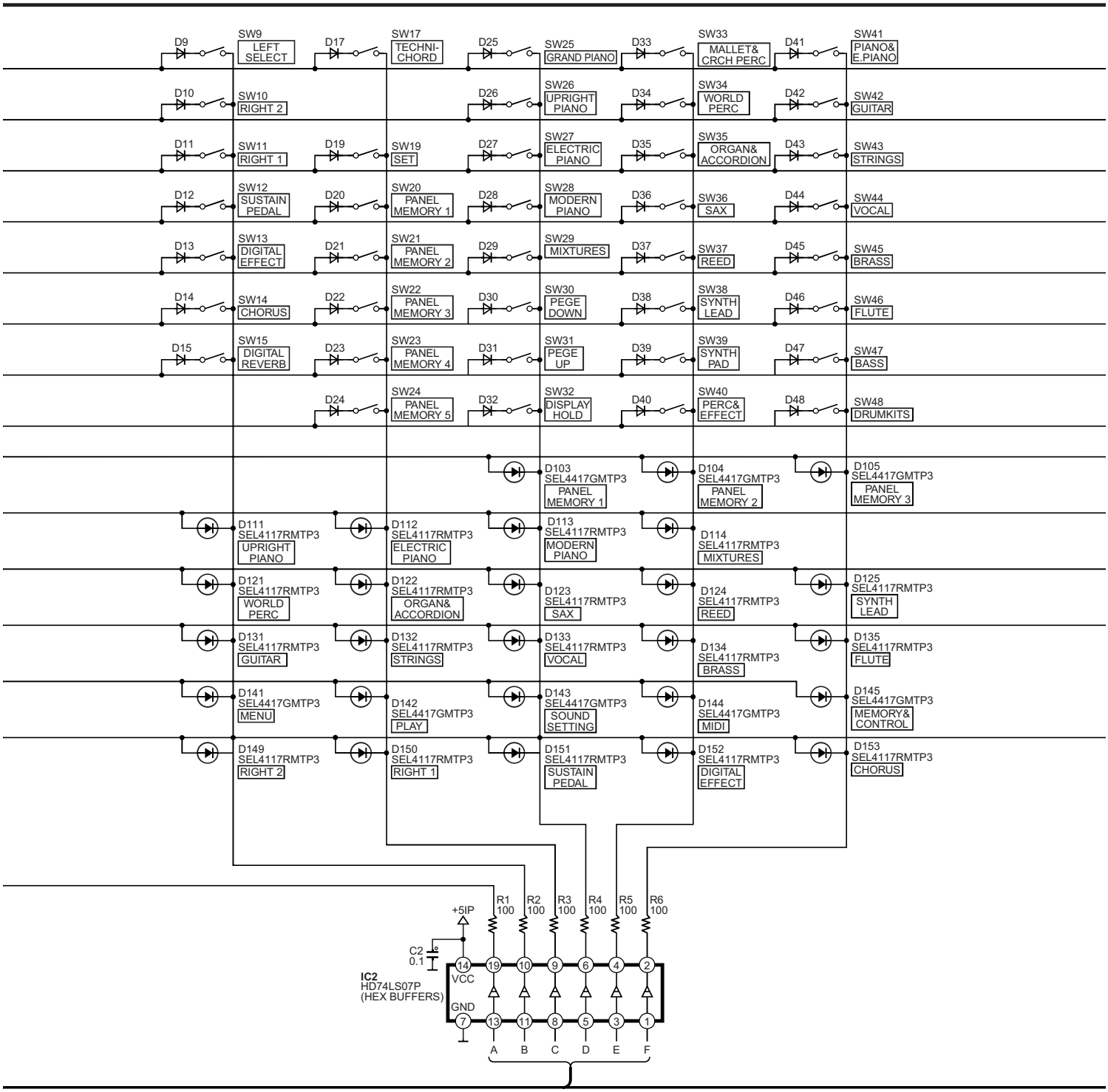


SCHEMATIC DIAGRAM-16

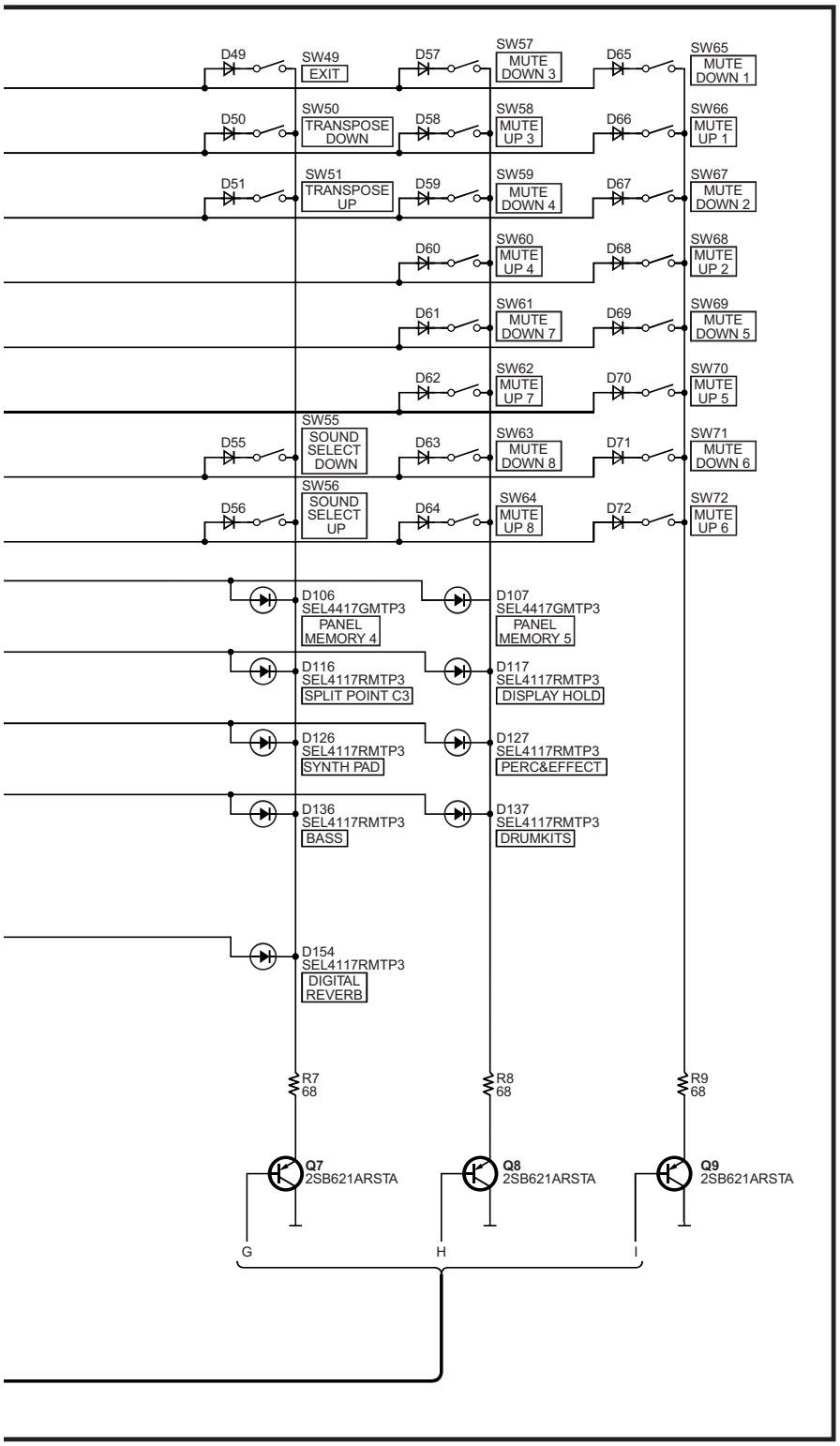
D CPR CIRCUIT



SCHEMATIC DIAGRAM-17

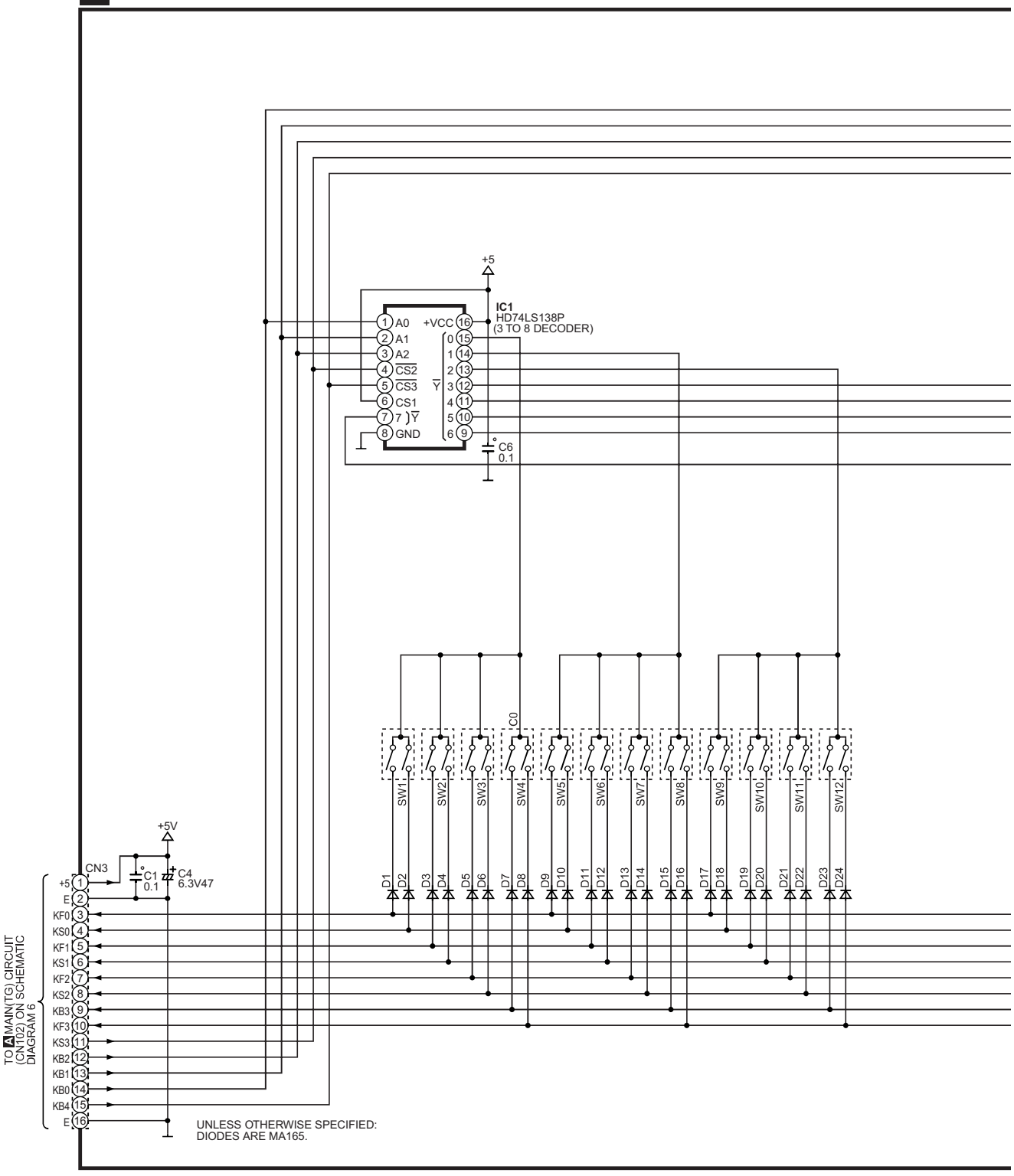


SCHEMATIC DIAGRAM-18

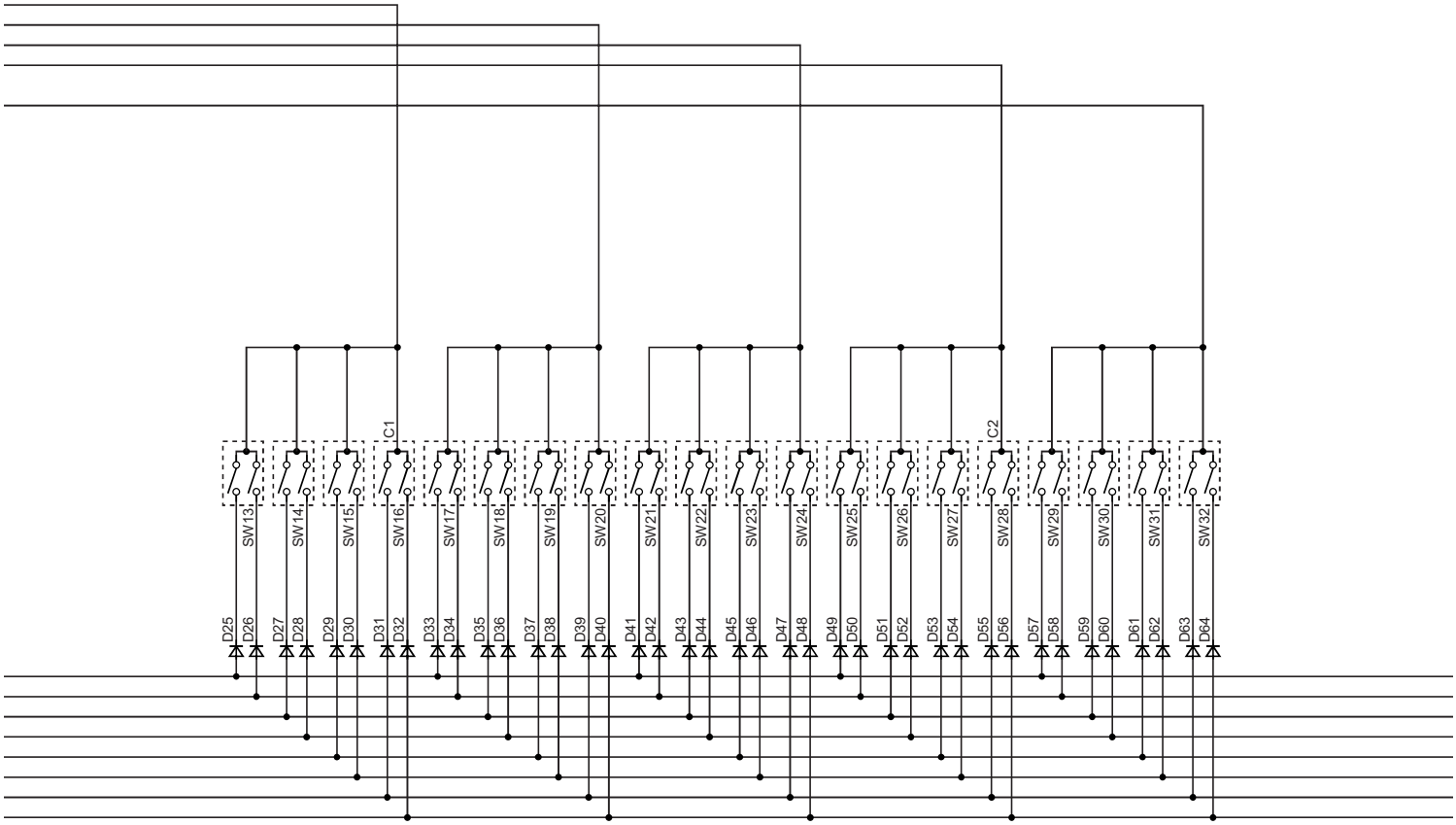


SCHEMATIC DIAGRAM-19

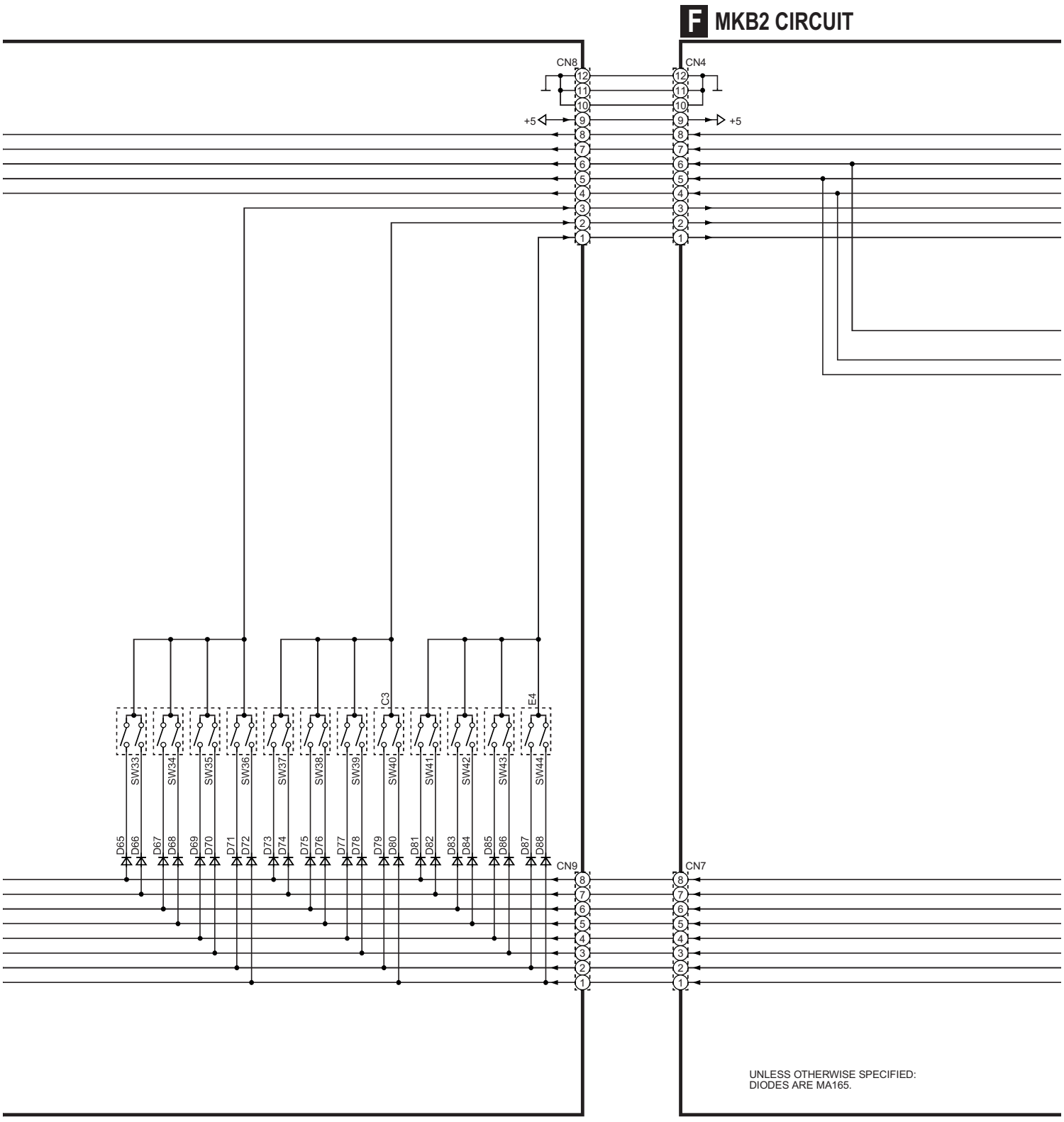
E MKB1 CIRCUIT



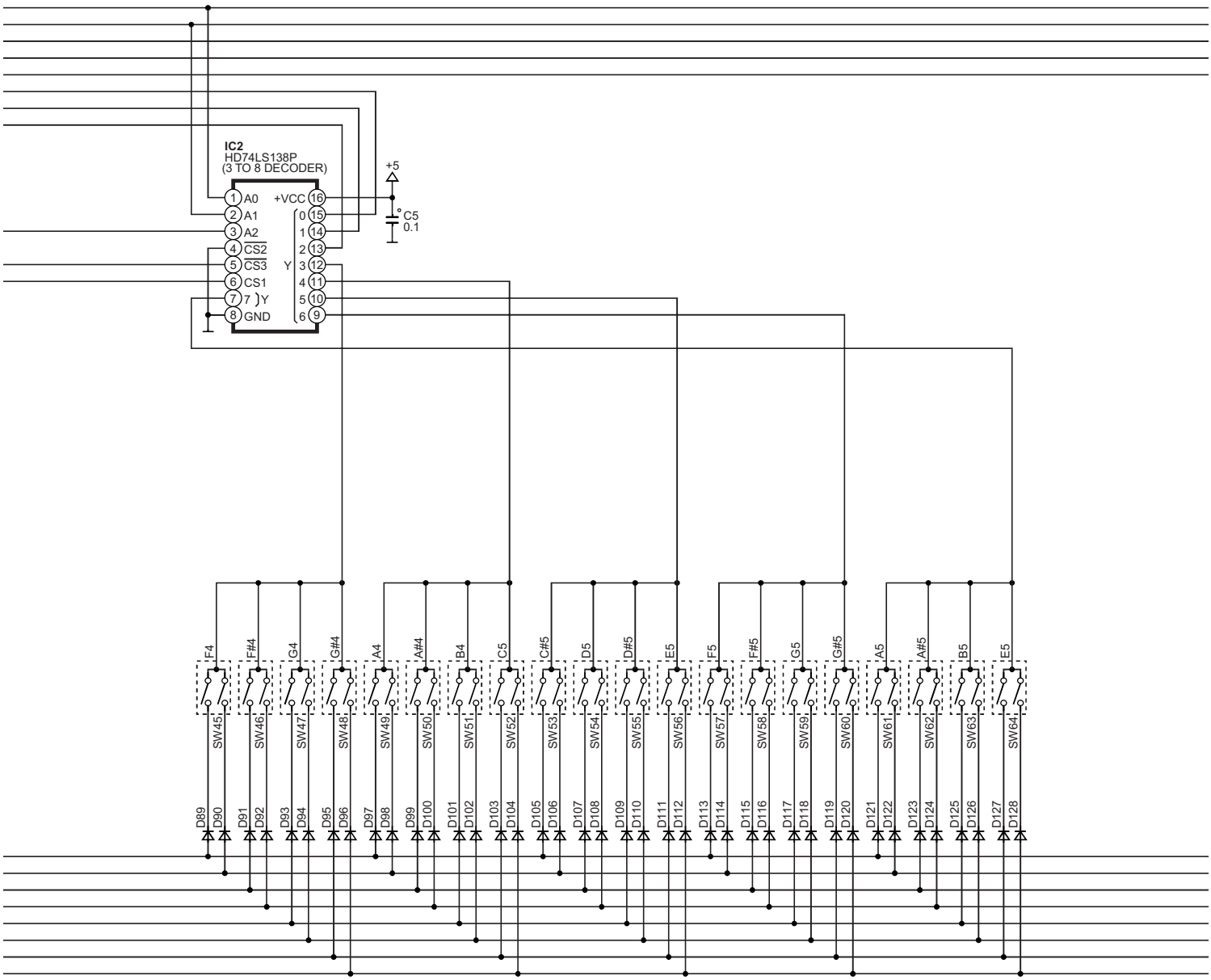
SCHEMATIC DIAGRAM-20



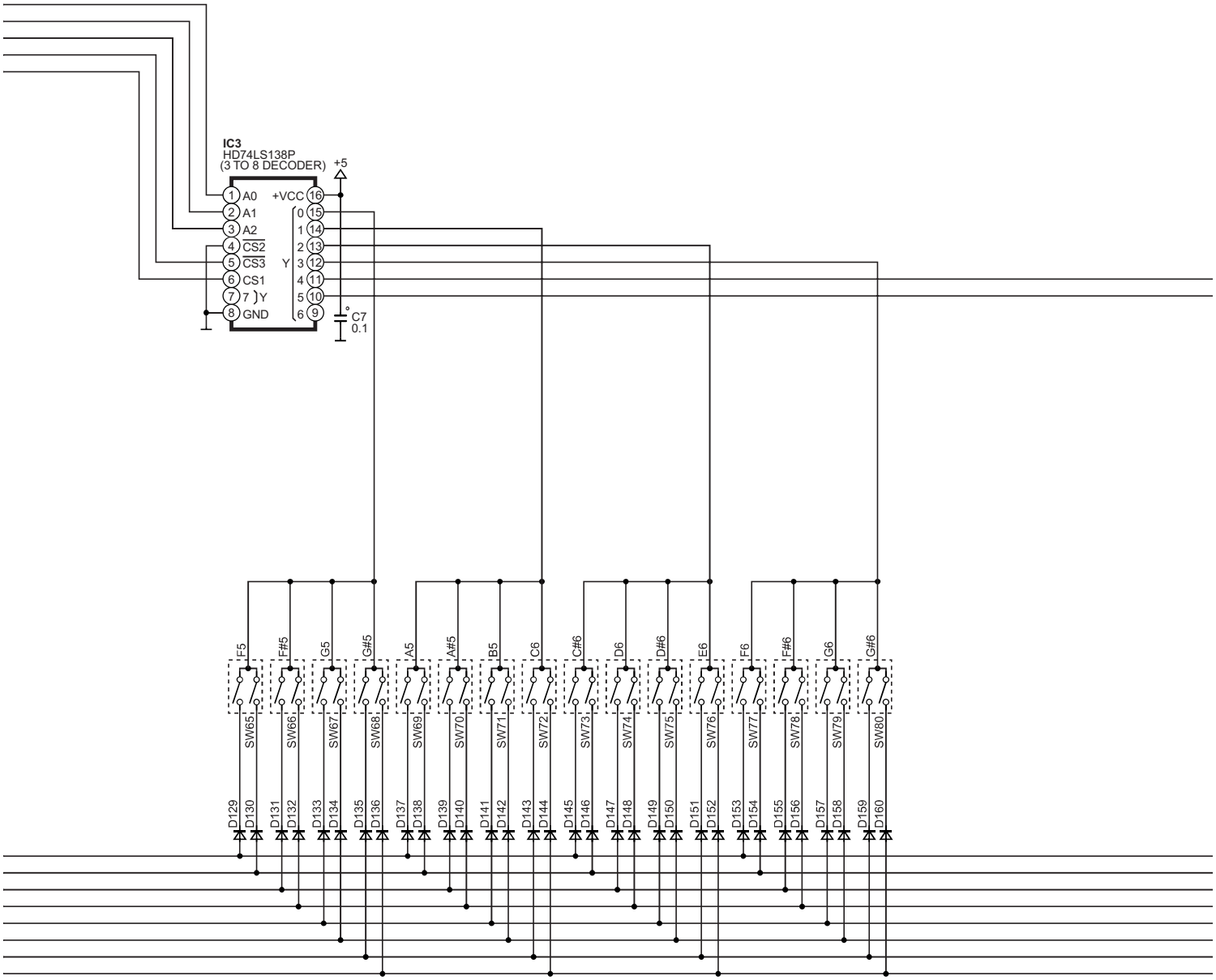
SCHEMATIC DIAGRAM-21



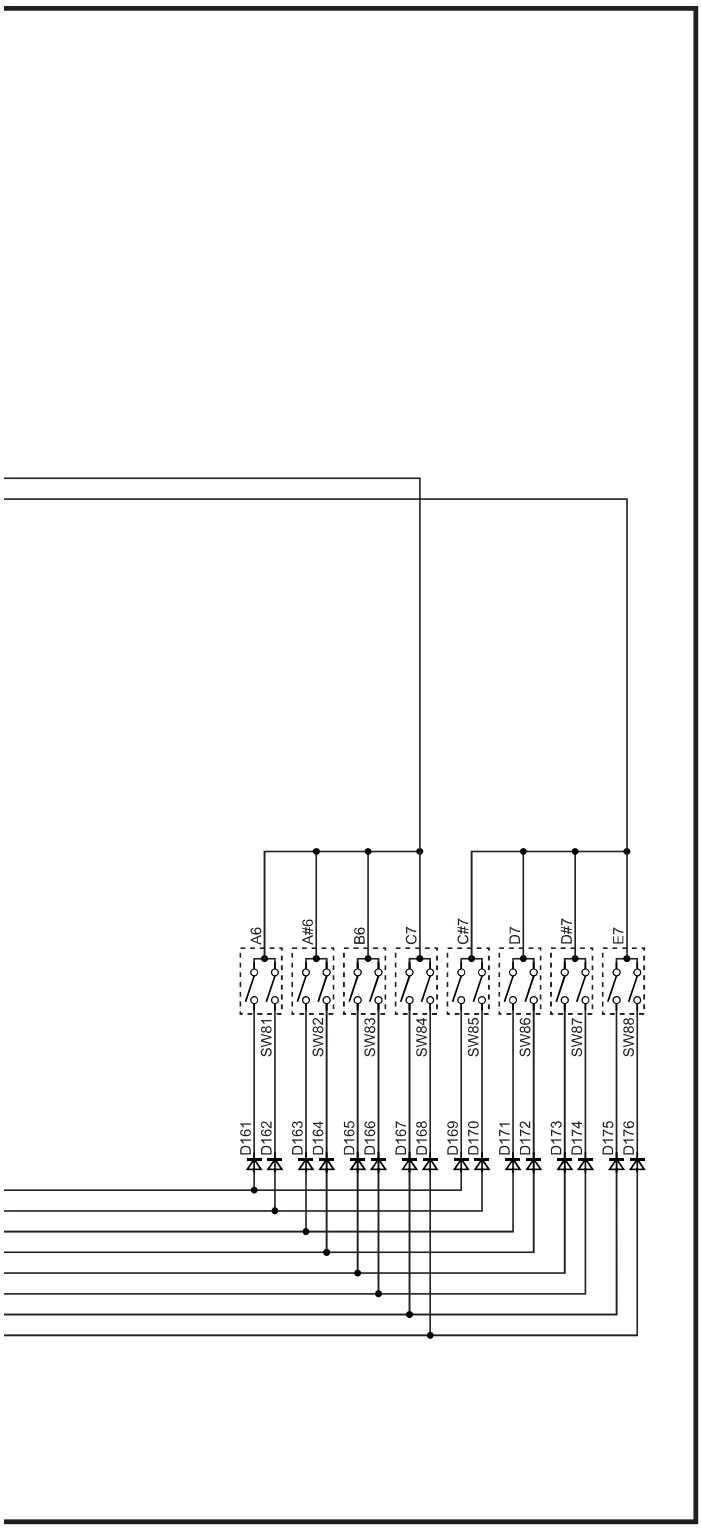
SCHEMATIC DIAGRAM-22



SCHEMATIC DIAGRAM-23

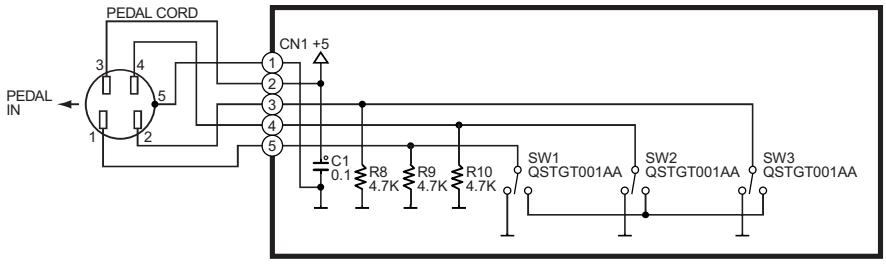


SCHEMATIC DIAGRAM-24

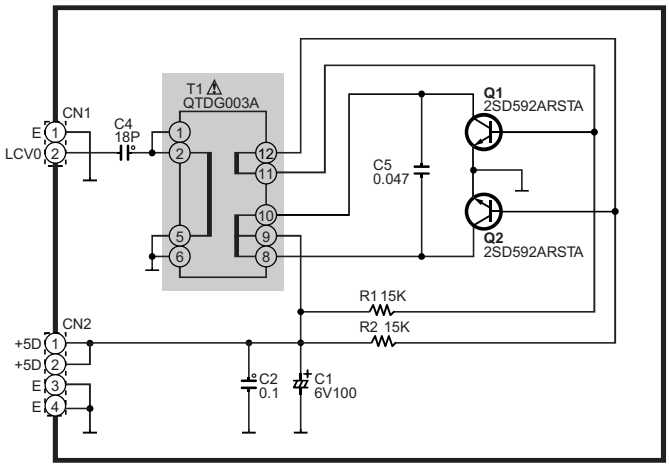


SCHEMATIC DIAGRAM-25

G PKB CIRCUIT

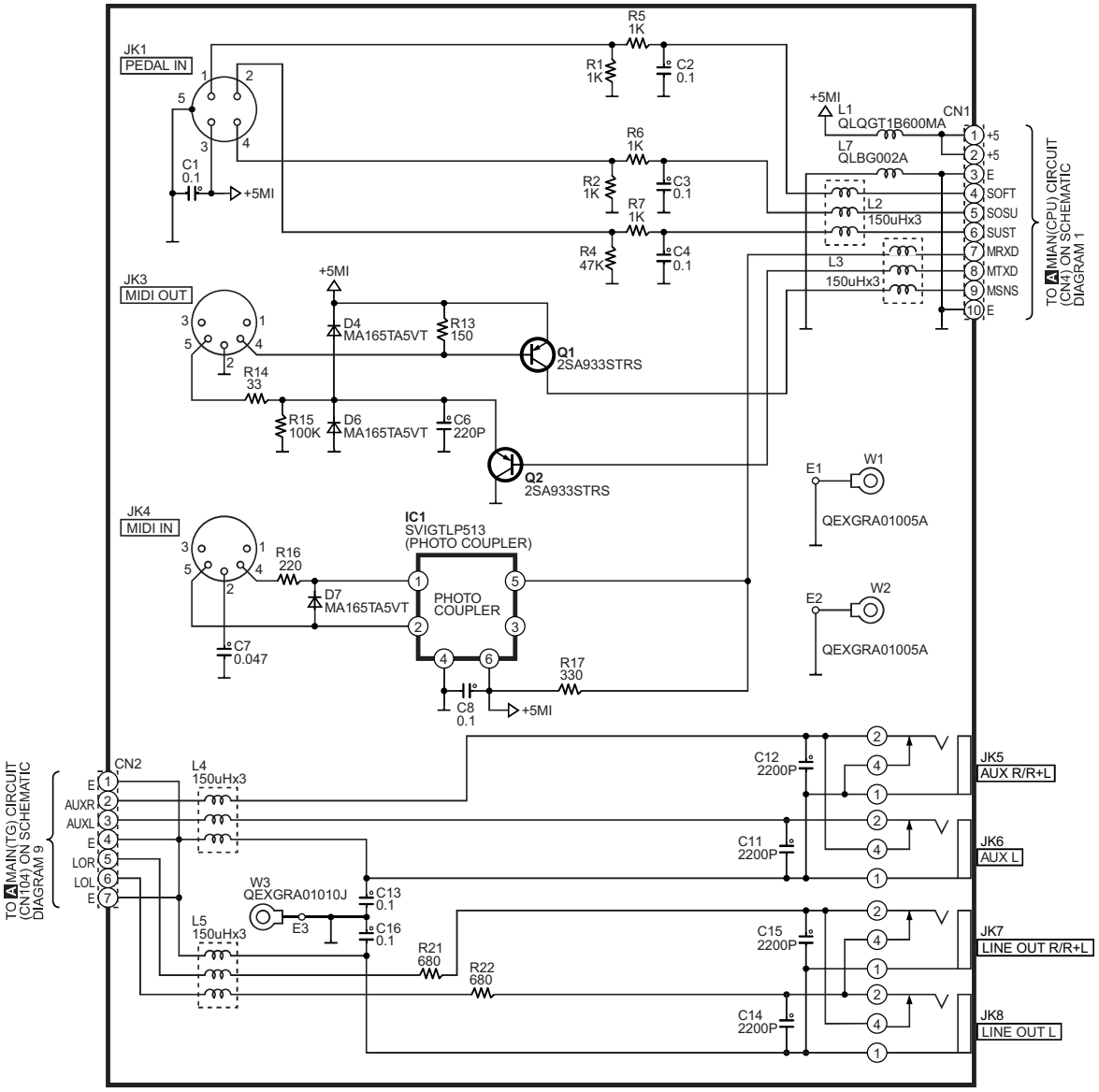


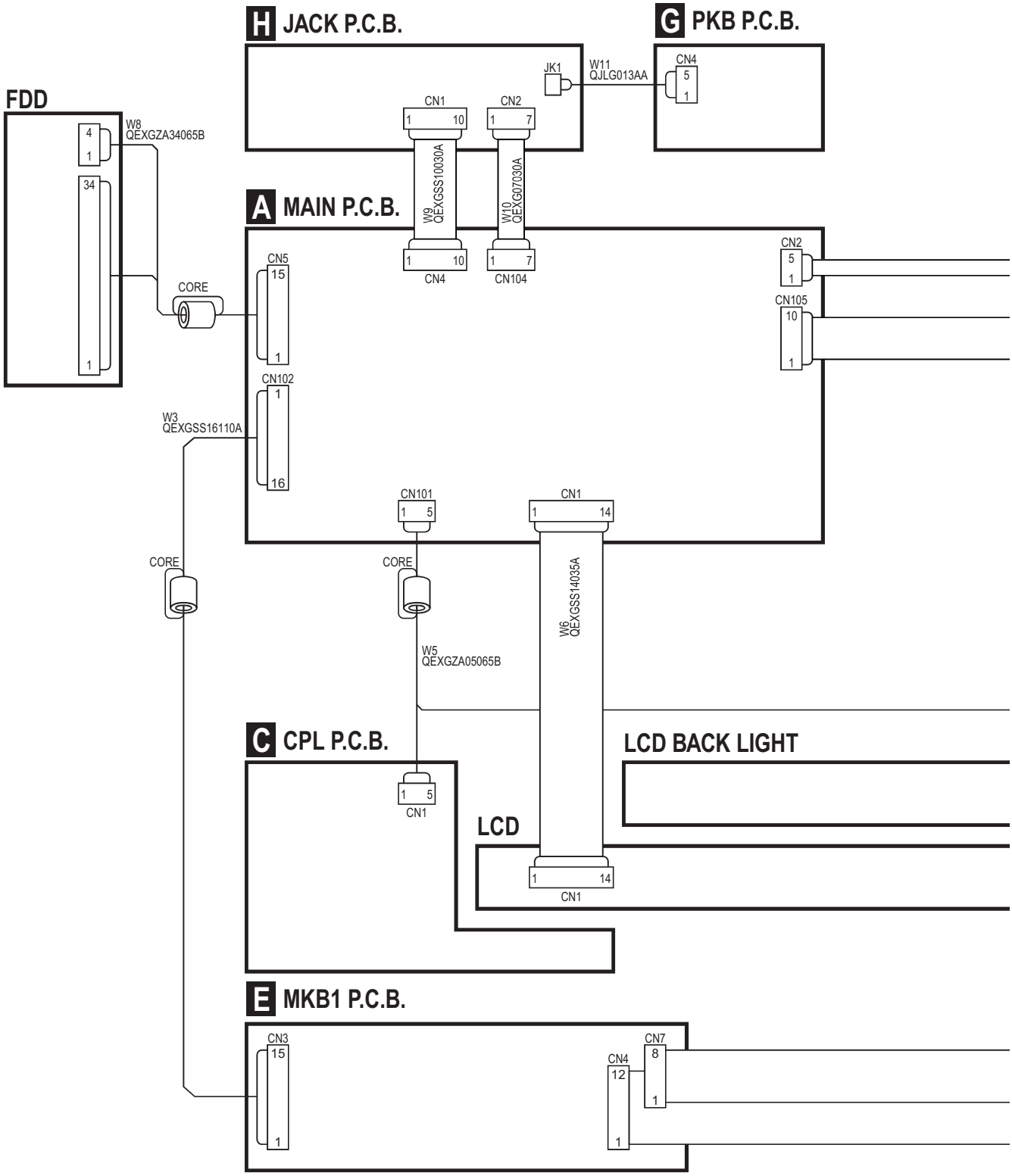
I INV CIRCUIT

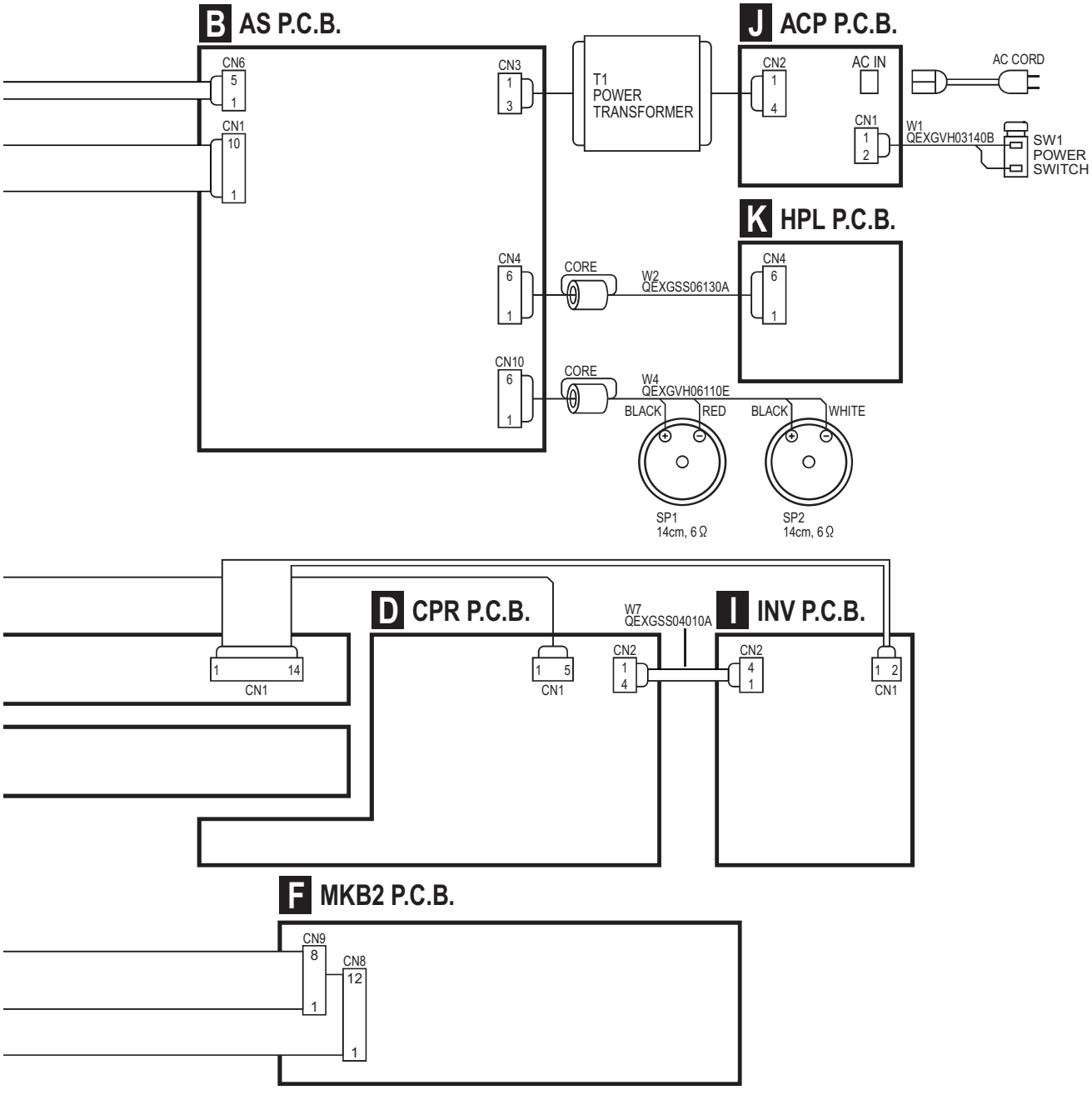


SCHEMATIC DIAGRAM-26

H JACK CIRCUIT




H JACK P.C.B.
G PKB P.C.B.
JK1
W11
QJLG013AA
CN4
5
1
CN1
CN2
1 10
1 7
W9
QEXGSS10030A
W10
QEXG07030A
FDD
W8
QEXGZA34065B
4
1
34
1
A MAIN P.C.B.
1 10
CN4
1 7
CN104
CN2
5
1
CN105
10
1
CN5
15
1
CORE
CN102
1
16
W3
QEXGSS16110A
CN101
1 5
CN1
1 14
CORE
CORE
W6
QEXGSS14035A
W5
QEXGZA05065B
C CPL P.C.B.
LCD BACK LIGHT
1 5
CN1
LCD
1 14
CN1
E MKB1 P.C.B.
CN3
15
1
CN7
8
1
CN4
12
1


B AS P.C.B.
CN6
5
1
CN1
10
1
CN3
1
3
T1
POWER
TRANSFORMER
J ACP P.C.B.
CN2
1
4
AC IN
AC CORD
CN1
1
2
W1
QEXGVH03140B
SW1
POWER
SWITCH
K HPL P.C.B.
CN4
6
1
CORE
W2
QEXGSS06130A
CN4
6
1
CN10
6
1
CORE
W4
QEXGVH06110E
BLACK
RED
BLACK
WHITE
SP1
14cm, 6 Ω
SP2
14cm, 6 Ω
D CPR P.C.B.
1
14
CN1
1
5
CN1
W7
QEXGSS04010A
I INV P.C.B.
CN2
1
4
CN2
4
1
1
2
CN1
F MKB2 P.C.B.
CN9
8
1
CN8
12
1

check those indications in the Remarks.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	SBNG7050A	KNOB	1	
2	QKWG028AB	PLATE	1	
3	QMRG2052AA	COVER	1	
4	QGPG0118DA	CONTROL PANEL	1	(EXCEPT P)
4	QGPG0118DB	CONTROL PANEL	1	(P)
5	QMRG5126AA	CUSHION	1	
6	QMRG5125AA	CUSHON	1	
7	QMFG1140AA	FELT	1	
8	QGUG1347AB	PUSH BUTTON	1	
9	QGUG1348BA	PUSH BUTTON	1	
10	QGUG1350AA	PUSH BUTTON	1	
11	QGUG1352DA01	PUSH BUTTON	1	
12	QGUG1434BA	PUSH BUTTON	2	
13	QGUG1352BA	PUSH BUTTON	1	
14	QGUG1349AA	PUSH BUTTON	1	
15	QGUG1361AB	PUSH BUTTON	1	
16	QGUG1353CA	PUSH BUTTON	1	
17	QGUG1356CA	PUSH BUTTON	1	
18	QGUG1433AA	PUSH BUTTON	1	
19	QGUG1354AB	PUSH BUTTON	1	
20	QGUG1431AA01	PUSH BUTTON	1	
21	QGUG1362EA01	PUSH BUTTON	1	
22	QGUG1359BA	PUSH BUTTON	1	
23	QGUG1352CA	PUSH BUTTON	1	
24	QGUG1357BA	PUSH BUTTON	1	
25	QGUG1357DA	PUSH BUTTON	1	
26	QGUG1360BA	PUSH BUTTON	1	
27	QGUG1432BA	PUSH BUTTON	1	
28	QGUG1359CA	PUSH BUTTON	1	
29	QGUG1358AA	PUSH BUTTON	1	
30	QGUG1362DA	PUSH BUTTON	1	
31	QGUG1362FA	PUSH BUTTON	1	
32	QHQG004AA	FLUORESCENT LAMP	1	
33	QMNG0051AA	COVER	1	
34	QMNG0052AA	COVER	1	
35	QMRG5155AAK	AIR PACKING	2	
36	QMRG5213AA	CUSHION	1	
37	QGKG0096AD	AC JACK PANEL	1	(P PC EX EB EZ EG EF GN)
37	QGKG0096DC	AC JACK PANEL	1	(X XS XD XT XA)
38	K2AA2G000003	AC INLET COVER	1	(EXCEPT P PC)
38	SJS9334A	AC INLET COVER	1	(P,PC)
39	QMRG7029AC	BRACKET	1	
40	QMRG7028AC	BRACKET	1	
41	QGKG0076CB	EXTERNAL JACK PANEL	1	
42	QMRG7086AA	LID GUIDE	2	
43	QKSGG026BA	GUIDE	1	
44	QKSGG027BA	GUIDE	1	
45	QMFG4103AA	CUSHION	1	
46	QKAG0012A	FOOT	2	
47	QLZG017A	CORE	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
48	SGKG980A	LABEL	1	
49	QAUG027AA	DISK DRIVE UNIT	1	
50	QMFG1220AA	FELT	1	
51	QMGG029AA	FLOATING RUBBER	4	
52	QEXGRA01007H	WIRE	1	
53	QLZG021A	CORE	4	
54	QTPG1M022A	POWER TRANSFORMER	1	⚠ (P,PC)
54	QTPG1M025A	POWER TRANSFORMER	1	⚠ (EXCEPT P PC)
55	QSLG021AA	LCD	1	
56	QJRG019AA	EARTH PLATE	2	
57	QEXGRA01007J	WIRE	2	
58	QYKG276AA	CABINET ASS'Y	1	(EXCEPT EZ)
58	QYKG276AAZ	CABINET ASS'Y	1	(EZ)
58	QYKG276ABZ	CABINET ASS'Y	1	SX-PR53M(EZ)
58	QYKG276AB	CABINET ASS'Y	1	SX-PR53M(EXCEPT EZ)
59	QYAG2011AB	MUSIC STAND	1	
59	QYAG1040ABZ	MUSIC STAND	1	SX-PR53M
59-1	SBLG7-2	STAY	2	SX-PR53M
60	QKQGA130BA	TOP COVER ASS'Y	1	(EXCEPT EZ)
60	QKQGA130BAZ	TOP COVER ASS'Y	1	(EZ)
60	QKQGA147AAZ	TOP COVER ASS'Y	1	SX-PR53M
60-1	QMFG1221AA	FELT	4	
60-2	QMFG1264AA	FELT	3	
60-3	QMRG7021AB	SLEEVE	2	
60-3	QMRG7021AA	SLEEVE	2	SX-PR53M
60-4	SGBG160B	BADGE	1	
60-5	QGKG0150AA	ORNAMENT	1	
60-5	QGKG0150AB	ORNAMENT	1	SX-PR53M
60-6	XTT4+10A	SCREW	8	
61	QKQGF032ABZ	KEY BOARD COVER ASS'Y	1	
61	QKQGF032ACZ	KEY BOARD COVER ASS'Y	1	SX-PR53M
61-1	QGKG0132AA	ORNAMENT	1	
61-1	QGKG0132AB	ORNAMENT	1	SX-PR53M
61-2	QMRG7031EC	PROTECTOR	1	
61-3	QMRG7032EC	PROTECTOR	1	
61-4	QMRG7056AA	HOLDER	2	
61-5	QWBG002AA	HOLDER	1	
61-6	QXQG007AA	AXLETREE	1	
61-7	XTB4+10A	SCREW	2	
61-8	XTB3+10AFZ	SCREW	1	
61-9	XTB3+6A	SCREW	6	
62	QKQGB551AAZ	LEFT PLANK ASS'Y	1	
62	QKQGB551ABZ	LEFT PLANK ASS'Y	1	SX-PR53M
62-1	SHRG2130B-K	FOOT	3	
62-2	XTW3+16J	SCREW	6	
63	QKQGB552AAZ	RIGHT PLANK ASS'Y	1	
63	QKQGB552ABZ	RIGHT PLANK ASS'Y	1	SX-PR53M
63-1	SHRG2130B-K	FOOT	3	
63-2	XTW3+16J	SCREW	6	
64	QKQGM113AAZK	PEDAL BOX ASS'Y	1	
64	QKQGM113ABZK	PEDAL BOX ASS'Y	1	SX-PR53M
64-1	QGKG0113AA	ORNAMENT	2	
65	SHRG1230A	CORD CLAMPER	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
66	QKQGD101AAZ	CROSS BOARD	1	
67	QMBG009AA	SPRING	2	
68	QMFG1133AA	FELT	2	
69	QMFG1134AA	FELT	2	
70	QMFG1135AA	FELT	2	
71	QMWG4002AA	PEDAL ARM	2	
72	QKAG0011AA	FOOT	1	
73	XTW3+10Q	SCREW WITH WASHER	48	
74	XYA35+JA12	SCREW	29	
75	QHDG055AA	SCREW	12	
76	XTT4+20A	SCREW	14	
77	XTWSG2	SCREW	1	
78	XYN4+F16	SCREW	4	
79	XNS12	SCREW	2	
80	QHDG021AA	SCREW	10	
81	XTT4+20AFZ	SCREW	4	
82	QHDG043AA	SCREW	4	
83	XYN3+F6	SCREW	1	
84	XTB35+16A	SCREW	12	
85	XTN4+50AFZ	SCREW	2	
86	XTB35+20A	SCREW	2	
87	XTT4+10AFZ	SCREW	2	SX-PR53M
88	XTB3+10AFZ	SCREW	2	SX-PR53M
89	XTB35+14A	SCREW	1	
90	XYN4+F16FZ	SCREW	2	
91	QHDG016AB	SCREW WITH WASHER	8	
92	QHDG032AB	SCREW WITH WASHER	4	
93	XTT4+14A	SCREW	2	
94	XTN4+16F	SCREW	1	
120	XTW3+10T	SCREW	16	
121	QGUG1040AA	BUTTON POWER	1	
122	QGPG0139BB	END COVER PANEL LEFT	1	
123	QGPG0138BB	END COVER PANEL RIGHT	1	
124	QMFG1104AA	FELT	2	
125	QMWG1041AA	WHITE KEY(FIRST OCT A KEY)	1	
126	QMWG1042AA	WHITE KEY(B KEY)	8	
127	QMWG1043AA	WHITE KEY(C KEY)	7	
128	QMWG1044AA	WHITE KEY(D KEY)	7	
129	QMWG1045AA	WHITE KEY(E KEY)	7	
130	QMWG1046AA	WHITE KEY(F KEY)	7	
131	QMWG1047AA	WHITE KEY(G KEY)	7	
132	QMWG1048AA	WHITE KEY(A KEY)	7	
133	QMWG1049AA	WHITE KEY(TOP OCTAVE C KEY)	1	
134	QMWG2006AA	BLACK KEY	36	
135	QMCG011BA	SPRING	88	
136	QMWG9027AA	HAMMER (BLACK KEY)	8	
137	QMWG9027AB	HAMMER (BLACK KEY)	14	
138	QMWG9027AC	HAMMER (BLACK KEY)	7	
139	QMWG9027AD	HAMMER (BLACK KEY)	7	
140	QMWG9025AA	HAMMER (BLACK KEY)	12	
141	QMWG9025AB	HAMMER (BLACK KEY)	19	
142	QMWG9025AC	HAMMER (BLACK KEY)	11	
143	QMWG9025AD	HAMMER (BLACK KEY)	10	
144	QMGG060AA	HAMMER RUBBER CAP	88	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
145	QMWG8045AA	KEY GUIDE	88	
146	QMWG8041AA	FUL CU RUM(4PCS.ON ONE)	1	
147	QMWG8040AA	FUL CU RUM(12PCS.ON ONE)	7	
148	QMFG1267BA	FELT	2	
149	QMFG1268BA	FELT	2	
150	QMFG1266BA	FELT	4	
151	QMFG1265AA	FELT	2	
152	QMWG6020AA	RUBER SWITCH	1	
153	QMWG6021AA	RUBER SWITCH	7	
154	QMWG8038AA	HAMMER SUPPORT (BLACK KEY)	52	
155	QMWG8039AA	HAMMER SUPPORT (BLACK KEY)	36	
156	XTV3+20JFZ	SCREW	2	
157	XTV3+12G	SCREW	4	
A1	QQFGPR53AA	FAN BAG	1	(P)
A1	QQFGPR53BA	FAN BAG	1	(PC)
A1	QQFGPR53CA	FAN BAG	1	(X)
A1	QQFGPR53DA	FAN BAG	1	(XA)
A1	QQFGPR53EA	FAN BAG	1	(XD)
A1	QQFGPR53FA	FAN BAG	1	(XT)
A1	QQFGPR53GA	FAN BAG	1	(EX)
A1	QQFGPR53HA	FAN BAG	1	(EZ)
A1	QQFGPR53JA	FAN BAG	1	(EB GN XS)
A1	QQFGPR53KA	FAN BAG	1	(EG)
A1	QQFGPR53LA	FAN BAG	1	(EF)
A2	QJAG025AA	AC CORD	1	⚠ (P,PC)
A2	QJAG027AA	AC CORD	1	⚠ (EZ EG EF X XS)
A2	QJAG028AA	AC CORD	1	⚠ (EB,XD)
A2	QJAG029AA	AC CORD	1	⚠ (GN)
A2	QJAG031AA	AC CORD	1	⚠ (XA)
A3	QFVG2014A	FLOPPY DISK	1	
A4	SJP5213-2	PULG ADAPTOR	1	⚠ (X,XT)
C1	ECA1VM101B	100UF 35V	1	MAIN
C1	ECEA0JKA101	100U 6.3V	1	INV
C1	ECEA0JKA331Q	330UF 6.3V	1	CPL
C1	ECKCVA1472MF	4700PF LINE CAPACITOR	1	⚠ ACP
C1	ECKF1E473X	0.1UF	1	MKB1
C1	ECKR1E473ZV	0.047UF	1	JACK2
C1	ECRF1H104ZF	0.1U	1	PKB
C1	ECRR1H104ZF	0.1P	1	CPR
C1	ECRR1H104ZF	0.1P	1	JACK
C2	ECEA0JKA470	6.3V 47U	1	MKB1
C2	ECKR1E473ZV	0.047UF	1	JACK2
C2	ECQU2A104MN	0.1UF	1	⚠ ACP
C2	ECRR1H104ZF	0.1P	1	CPL
C2	ECRR1H104ZF	0.1P	1	INV
C2	ECRR1H104ZF	0.1P	1	CPR
C2	ECRR1H104ZF	0.1P	1	JACK
C2	ECUV1C224KBX	0.22UF	1	MAIN
C3	ECBT1E223ZF5	0.022P	1	CPL

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C3	ECRF1H104ZF	0.1UF	1	MKB1
C3	ECRR1H104ZF	0.1P	1	JACK2
C3	ECRR1H104ZF	0.1P	1	JACK
C3	ECUV1H104ZFX	0.1UF	1	MAIN
C4	ECCW3F180JGE	18PF	1	INV
C4	ECEA0JKA101	100U 6.3V	1	CPL
C4	ECEA0JKA470	47U 6V	1	CPR
C4	ECRF1H104ZF	0.1UF	1	MKB1
C4	ECRR1H104ZF	0.1P	1	JACK
C4	ECUV1H104ZFX	0.1UF	1	MAIN
C5	ECBT1E223ZF5	0.022P	1	CPR
C5	ECEA1CKN100B	10UF 16V	1	MAIN
C5	ECHS1473JZ3	0.047U	1	INV
C5	ECQB1H103JF3	0.1UF 50V	1	AS
C5	ECRF1H104ZF	0.1UF	1	MKB2
C6	ECCR1H221J5	220PF	1	JACK
C6	ECQB1H103JF3	0.1UF 50V	1	AS
C6	ECRF1H104ZF	0.1UF	1	MKB2
C6	ECUV1H101JG	100PF	1	MAIN
C7	ECKR1E473ZV	0.047UF	1	JACK
C7	ECQV1H104JM	0.1U	1	AS
C7	ECUV1H101JG	100PF	1	MAIN
C7	W6E05	JP	1	CPL
C8	ECQB1H473JF3	0.047UF	1	AS
C8	ECRR1H104ZF	0.1P	1	JACK
C8	ECUV1H103KBG	0.01UF	1	MAIN
C8	W6E05	JP	1	CPL
C9	ECEA1CKA100	10UF 16V	1	MAIN
C9	ECRR1H104ZF	0.1P	1	CPL
C10	ECQV1H104JM	0.1U	1	AS
C10	ECRR1H104ZF	0.1P	1	CPL
C10	ECUV1C224KBX	0.22UF	1	MAIN
C11	ECBT1C222MR5	2200PF	1	JACK
C11	ECQB1H153JF	0.015U	1	AS
C11	ECRR1H104ZF	0.1P	1	CPL
C11	ECUV1H103KBG	0.01UF	1	MAIN
C12	ECBT1C222MR5	2200PF	1	JACK
C12	ECEA1HKA010	1UF 50V	1	MAIN
C12	ECQV1H104JM	0.1U	1	AS
C12	W6E05	JP	1	CPL
C13	ECQV1H104JM	0.1U	1	AS
C13	ECRR1H104ZF	0.1P	1	JACK
C13	ECUV1H104ZFX	0.1UF	1	MAIN
C14	ECBT1C222MR5	2200PF	1	JACK
C14	ECQB1H473JF3	0.047UF	1	AS
C14	ECUV1H100DCN	10PF	1	MAIN
C15	ECA0JM102	1000UF 6V	1	MAIN
C15	ECBT1C222MR5	2200PF	1	JACK
C16	ECQB1H153JF	0.015U	1	AS
C16	ECRR1H104ZF	0.1P	1	JACK
C16	ECUV1H104ZFX	0.1UF	1	MAIN
C17	ECQB1H223JF	0.022U	1	AS
C17	ECUV1H100DCN	10PF	1	MAIN
C18	ECQB1H103JF3	0.1UF 50V	1	AS

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C18	ECUV1C224KBX	0.22UF	1	MAIN
C19	ECQG1H222KZ	0.0022U	1	AS
C19	ECUV1H104ZFX	0.1UF	1	MAIN
C20	ECQB1H103JF3	0.1UF 50V	1	AS
C20	ECUV1H104ZFX	0.1UF	1	MAIN
C21	ECQG1H222KZ	0.0022U	1	AS
C21	ECUV1H104ZFX	0.1UF	1	MAIN
C22	ECQB1H103JF3	0.1UF 50V	1	AS
C22	ECUV1H104ZFX	0.1UF	1	MAIN
C23	ECQB1H223JF	0.022U	1	AS
C24	ECQB1H103JF3	0.1UF 50V	1	AS
C24	ECUV1H104ZFX	0.1UF	1	MAIN
C25	ECCR1H100D5	10PF	1	AS
C25	ECUV1H104ZFX	0.1UF	1	MAIN
C26	ECCR1H100D5	10PF	1	AS
C26	ECUV1H104ZFX	0.1UF	1	MAIN
C27	ECUV1H104ZFX	0.1UF	1	MAIN
C28	ECUV1H104ZFX	0.1UF	1	MAIN
C29	ECA1VM472	4700 35V	1	AS
C29	ECUV1H104ZFX	0.1UF	1	MAIN
C30	ECUV1H104ZFX	0.1UF	1	MAIN
C31	ECUV1H101JG	100PF	1	MAIN
C32	ECA1VM332E	3300 35V	1	AS
C32	ECUV1H101JG	100PF	1	MAIN
C33	ECUV1H100DCN	10PF	1	MAIN
C34	ECUV1H223KBX	0.022UF	1	MAIN
C35	ECUV1H182JX	1800PF	1	MAIN
C36	ECRR1H104ZF	0.1P	1	AS
C36	ECUV1H104ZFX	0.1UF	1	MAIN
C37	ECRR1H104ZF	0.1P	1	AS
C37	ECUV1H100DCN	10PF	1	MAIN
C38	ECEA1CKA100	10U 16V	1	AS
C38	ECUV1H472KBG	4700PF	1	MAIN
C39	ECA1CM331	330U 16V	1	AS
C39	ECUV1H333KBX	0.033UF	1	MAIN
C40	ECUV1H333KBX	0.033UF	1	MAIN
C41	EECS5R5V105	1F 5.5V	1	MAIN
C42	ECUV1H104ZFX	0.1UF	1	MAIN
C43	ECEA1CKA470	47UF 16V	1	MAIN
C44	ECEA0JKA101	100U 6.3V	1	MAIN
C45	ECUV1H470JG	47PF	1	MAIN
C46	ECEA1HKN010	1UF 50V	1	MAIN
C47	ECUV1H470JG	47PF	1	MAIN
C48	ECUV1H470JG	47PF	1	MAIN
C49	ECQV1H154JM	0.15U	1	AS
C49	ECUV1H470JG	47PF	1	MAIN
C50	ECQB1H223JF	0.022U	1	AS
C50	ECUV1H104ZFX	0.1UF	1	MAIN
C51	ECQV1H104JM	0.1U	1	AS
C51	ECUV1H470JG	47PF	1	MAIN
C52	ECUV1H470JG	47PF	1	MAIN
C53	ECUV1H470JG	47PF	1	MAIN
C54	ECQV1H154JM	0.15U	1	AS
C55	ECQB1H223JF	0.022U	1	AS

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C56	ECQV1H104JM	0.1U	1	AS
C101	ECUV1H104ZFX	0.1UF	1	MAIN
C102	ECUV1H104ZFX	0.1UF	1	MAIN
C103	ECUV1H104ZFX	0.1UF	1	MAIN
C104	ECUV1H101JG	100PF	1	MAIN
C105	ECUV1H101JG	100PF	1	MAIN
C106	ECUV1H104ZFX	0.1UF	1	MAIN
C107	ECUV1H101JG	100PF	1	MAIN
C109	ECEA0JKA470	47UF 6V	1	MAIN
C110	ECUV1H103KBG	0.01UF	1	MAIN
C111	ECUV1H103KBG	0.01UF	1	MAIN
C112	ECUV1H104ZFX	0.1UF	1	MAIN
C113	ECUV1H104ZFX	0.1UF	1	MAIN
C114	ECUV1H104ZFX	0.1UF	1	MAIN
C115	ECUV1H104ZFX	0.1UF	1	MAIN
C116	ECUV1H104ZFX	0.1UF	1	MAIN
C117	ECUV1H104ZFX	0.1UF	1	MAIN
C118	ECUV1H104ZFX	0.1UF	1	MAIN
C119	ECUV1H104ZFX	0.1UF	1	MAIN
C120	ECUV1H104ZFX	0.1UF	1	MAIN
C121	ECUV1H104ZFX	0.1UF	1	MAIN
C122	ECUV1H100DCN	10PF	1	MAIN
C123	ECUV1H100DCN	10PF	1	MAIN
C124	ECEA1CKA100	10UF 16V	1	MAIN
C125	ECUV1H104ZFX	0.1UF	1	MAIN
C126	ECUV1H104ZFX	0.1UF	1	MAIN
C127	ECEA0JKA101	100U 6.3V	1	MAIN
C128	ECUV1H104ZFX	0.1UF	1	MAIN
C129	ECUV1H104ZFX	0.1UF	1	MAIN
C130	ECUV1H104ZFX	0.1UF	1	MAIN
C131	ECUV1H104ZFX	0.1UF	1	MAIN
C132	ECUV1H104ZFX	0.1UF	1	MAIN
C133	ECUV1H104ZFX	0.1UF	1	MAIN
C134	ECUV1H104ZFX	0.1UF	1	MAIN
C135	ECEA1CKA100	10UF 16V	1	MAIN
C136	ECUV1H104ZFX	0.1UF	1	MAIN
C137	ECUV1H104ZFX	0.1UF	1	MAIN
C138	ECEA1HKA010	1UF 50V	1	MAIN
C139	ECEA1HKA010	1UF 50V	1	MAIN
C140	ECUV1H104ZFX	0.1UF	1	MAIN
C141	ECEA1HKN010	1UF 50V	1	MAIN
C142	ECEA1HKN010	1UF 50V	1	MAIN
C143	ECUV1H102JX	0.01UF	1	MAIN
C144	ECUV1H102JX	0.01UF	1	MAIN
C145	ECUV1H104ZFX	0.1UF	1	MAIN
C146	ECUV1H104ZFX	0.1UF	1	MAIN
C147	ECUV1H221JG	220PF	1	MAIN
C148	ECUV1H221JG	220PF	1	MAIN
C149	ECUV1H151JG	150PF	1	MAIN
C150	ECUV1H151JG	150PF	1	MAIN
C151	ECUV1H471JG	470P	1	MAIN
C152	ECUV1H471JG	470P	1	MAIN
C153	ECUV1H104ZFX	0.1UF	1	MAIN
C154	ECUV1H104ZFX	0.1UF	1	MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C155	ECUV1H471JG	470P	1	MAIN
C156	ECUV1H104ZFX	0.1UF	1	MAIN
C157	ECUV1H471JG	470P	1	MAIN
C158	ECUV1H104ZFX	0.1UF	1	MAIN
CN1	QJTG01010AA	CONNECTOR	1	AS
CN1	QJTG03004BA	CONNECTOR	1	INV
CN1	SJPG12JS020A	CONNECTOR	1	ACP
CN1	SJPG1JS100A	CONNECTOR	1	JACK
CN1	SJPG1JS140A	CONNECTOR	1	MAIN
CN1	SJPG2JS050A	CONNECTOR	1	CPL
CN1	SJPG2JS050A	CONNECTOR	1	CPR
CN1	SJPG2JS060A	CONNECTOR	1	JACK2
CN2	QJUG00205AA	CONNECTOR	1	MAIN
CN2	QJUG00703AA	CONNECTOR	1	JACK2
CN2	SJPG12JS040A	CONNECTOR	1	ACP
CN2	SJPG1JS040A	CONNECTOR	1	INV
CN2	SJPG1JS070A	CONNECTOR	1	JACK
CN2	SJPG2JS040A	CONNECTOR	1	CPR
CN3	SJPG1JS040A	CONNECTOR	1	MAIN
CN4	SJPG1JS060A	CONNECTOR	1	AS
CN4	SJPG1JS100A	CONNECTOR	1	MAIN
CN5	SJPG1JS150A	CONNECTOR	1	MAIN
CN5	SJPG7JS030A	CONNECTOR	1	AS
CN6	QJTG01005AA	CONNECTOR	1	AS
CN10	SJPG1320A	CONNECTOR	1	AS
CN101	SJPG1JS050A	CONNECTOR	1	MAIN
CN102	SJPG1JS160A	CONNECTOR	1	MAIN
CN104	SJPG1JS070A	CONNECTOR	1	MAIN
CN105	QJUG00210AA	CONNECTOR	1	MAIN
D1	ERA1502V5	DIODE	1	⚠ AS
D1	MA111TX	DIODE	1	MAIN
D1	MA165	DIODE	1	MKB1
D1	MA165TA5	DIODE	1	CPR
D1	MA165TA5VT	DIODE	1	CPL
D1	SEL4214RLC05	LED	1	JACK2
D2	ERA1502V5	DIODE	1	⚠ AS
D2	MA165	DIODE	1	MKB1
D2	MA165TA5	DIODE	1	CPR
D2	MA165TA5VT	DIODE	1	CPL
D2	MA8051L	ZENER	1	MAIN
D3	MA111TX	DIODE	1	MAIN
D3	MA165	DIODE	1	MKB1
D3	MA165TA5	DIODE	1	CPR
D3	MA165TA5VT	DIODE	1	CPL
D4	MA111TX	DIODE	1	MAIN
D4	MA165	DIODE	1	MKB1
D4	MA165TA5	DIODE	1	CPR
D4	MA165TA5VT	DIODE	1	JACK
D4	SVDGS3V20-15	RECTIFIER	1	⚠ AS
D5	MA111TX	DIODE	1	MAIN
D5	MA165	DIODE	1	MKB1

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D5	MA165TA5	DIODE	1	CPR
D6	MA165	DIODE	1	MKB1
D6	MA165TA5	DIODE	1	CPR
D6	MA165TA5VT	DIODE	1	JACK
D6	MA8030LTX	ZENER	1	MAIN
D6	SVDGS3V20-15	RECTIFIER	1	⚠ AS
D7	MA165	DIODE	1	MKB1
D7	MA165TA5VT	DIODE	1	CPL
D7	MA165TA5VT	DIODE	1	JACK
D7	SFPB-74V	DIODE	1	MAIN
D7	SVDGS3V20-15	RECTIFIER	1	⚠ AS
D8	MA165	DIODE	1	MKB1
D8	MA165TA5VT	DIODE	1	CPL
D8	MA2062LF	ZENER	1	MAIN
D9	MA152WK	DIODE	1	MAIN
D9	MA165	DIODE	1	MKB1
D9	MA165TA5	DIODE	1	CPR
D9	MA165TA5VT	DIODE	1	CPL
D9	SVDGS3V20-15	RECTIFIER	1	⚠ AS
D10	MA111TX	DIODE	1	MAIN
D10	MA165	DIODE	1	MKB1
D10	MA165TA5	DIODE	1	CPR
D10	MA165TA5VT	DIODE	1	CPL
D11	MA165	DIODE	1	MKB1
D11	MA165TA5	DIODE	1	CPR
D11	MA165TA5VT	DIODE	1	CPL
D11	MA4180TA	ZENNER	1	AS
D12	MA165	DIODE	1	MKB1
D12	MA165TA5	DIODE	1	CPR
D12	MA4180TA	ZENNER	1	AS
D13	MA165	DIODE	1	MKB1
D13	MA165TA5	DIODE	1	CPR
D14	MA165	DIODE	1	MKB1
D14	MA165TA5	DIODE	1	CPR
D15	MA165	DIODE	1	MKB1
D15	MA165TA5	DIODE	1	CPR
D15	MA165TA5	DIODE	1	AS
D15	MA165TA5VT	DIODE	1	CPL
D16	EK04W	DIODE	1	AS
D16	MA165	DIODE	1	MKB1
D16	MA165TA5VT	DIODE	1	CPL
D17	MA165	DIODE	1	MKB1
D17	MA165TA5	DIODE	1	CPR
D18	MA165	DIODE	1	MKB1
D18	MA165TA5VT	DIODE	1	CPL
D19	MA165	DIODE	1	MKB1
D19	MA165TA5	DIODE	1	CPR
D19	MA165TA5VT	DIODE	1	CPL
D19	MA29WATA	DIODE	1	AS
D20	MA165	DIODE	1	MKB1
D20	MA165TA5	DIODE	1	CPR
D20	MA165TA5VT	DIODE	1	CPL
D20	MA29WATA	DIODE	1	AS

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D21	MA165	DIODE	1	MKB1
D21	MA165TA5	DIODE	1	CPR
D21	MA165TA5VT	DIODE	1	CPL
D22	MA165	DIODE	1	MKB1
D22	MA165TA5	DIODE	1	CPR
D22	MA165TA5VT	DIODE	1	CPL
D23	MA165	DIODE	1	MKB1
D23	MA165TA5	DIODE	1	CPR
D23	MA165TA5VT	DIODE	1	CPL
D24	MA165	DIODE	1	MKB1
D24	MA165TA5	DIODE	1	CPR
D24	MA165TA5VT	DIODE	1	CPL
D25	MA165	DIODE	1	MKB1
D25	MA165TA5	DIODE	1	CPR
D25	MA165TA5VT	DIODE	1	CPL
D26	MA165	DIODE	1	MKB1
D26	MA165TA5	DIODE	1	CPR
D26	MA165TA5VT	DIODE	1	CPL
D27	MA165	DIODE	1	MKB1
D27	MA165TA5	DIODE	1	CPR
D27	MA165TA5VT	DIODE	1	CPL
D27	MA29WATA	DIODE	1	AS
D28	MA165	DIODE	1	MKB1
D28	MA165TA5	DIODE	1	CPR
D28	MA165TA5VT	DIODE	1	CPL
D28	MA29WATA	DIODE	1	AS
D29	MA165	DIODE	1	MKB1
D29	MA165TA5	DIODE	1	CPR
D29	MA165TA5VT	DIODE	1	CPL
D30	MA165	DIODE	1	MKB1
D30	MA165TA5	DIODE	1	CPR
D30	MA165TA5VT	DIODE	1	CPL
D31	MA165	DIODE	1	MKB1
D31	MA165TA5	DIODE	1	CPR
D31	MA165TA5VT	DIODE	1	CPL
D32	MA165	DIODE	1	MKB1
D32	MA165TA5	DIODE	1	CPR
D32	MA165TA5VT	DIODE	1	CPL
D33	EK04W	DIODE	1	AS
D33	MA165	DIODE	1	MKB1
D33	MA165TA5	DIODE	1	CPR
D33	MA165TA5VT	DIODE	1	CPL
D34	MA165	DIODE	1	MKB1
D34	MA165TA5	DIODE	1	CPR
D34	MA165TA5VT	DIODE	1	CPL
D35	MA165	DIODE	1	MKB1
D35	MA165TA5	DIODE	1	CPR
D35	MA165TA5VT	DIODE	1	CPL
D36	MA165	DIODE	1	MKB1
D36	MA165TA5	DIODE	1	CPR
D37	MA165	DIODE	1	MKB1
D37	MA165TA5	DIODE	1	CPR
D37	MA165TA5VT	DIODE	1	CPL
D38	MA165	DIODE	1	MKB1

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D38	MA165TA5	DIODE	1	CPR
D39	MA165	DIODE	1	MKB1
D39	MA165TA5	DIODE	1	CPR
D40	MA165	DIODE	1	MKB1
D40	MA165TA5	DIODE	1	CPR
D41	MA165	DIODE	1	MKB1
D41	MA165TA5	DIODE	1	CPR
D41	MA165TA5VT	DIODE	1	CPL
D42	MA165	DIODE	1	MKB1
D42	MA165TA5	DIODE	1	CPR
D42	MA165TA5VT	DIODE	1	CPL
D43	MA165	DIODE	1	MKB1
D43	MA165TA5	DIODE	1	CPR
D43	MA165TA5VT	DIODE	1	CPL
D44	MA165	DIODE	1	MKB1
D44	MA165TA5	DIODE	1	CPR
D44	MA165TA5VT	DIODE	1	CPL
D45	MA165	DIODE	1	MKB1
D45	MA165TA5	DIODE	1	CPR
D45	MA165TA5VT	DIODE	1	CPL
D46	MA165	DIODE	1	MKB1
D46	MA165TA5	DIODE	1	CPR
D46	MA165TA5VT	DIODE	1	CPL
D47	MA165	DIODE	1	MKB1
D47	MA165TA5	DIODE	1	CPR
D47	MA165TA5VT	DIODE	1	CPL
D48	MA165	DIODE	1	MKB1
D48	MA165TA5	DIODE	1	CPR
D48	MA165TA5VT	DIODE	1	CPL
D49	MA165	DIODE	1	MKB1
D49	MA165TA5	DIODE	1	CPR
D49	MA165TA5VT	DIODE	1	CPL
D50	MA165	DIODE	1	MKB1
D50	MA165TA5	DIODE	1	CPR
D50	MA165TA5VT	DIODE	1	CPL
D51	MA165	DIODE	1	MKB1
D51	MA165TA5	DIODE	1	CPR
D51	MA165TA5VT	DIODE	1	CPL
D52	MA165	DIODE	1	MKB1
D52	MA165TA5VT	DIODE	1	CPL
D53	MA165	DIODE	1	MKB1
D53	MA165TA5VT	DIODE	1	CPL
D54	MA165	DIODE	1	MKB1
D54	MA165TA5VT	DIODE	1	CPL
D55	MA165	DIODE	1	MKB1
D55	MA165TA5	DIODE	1	CPR
D55	MA165TA5VT	DIODE	1	CPL
D56	MA165	DIODE	1	MKB1
D56	MA165TA5	DIODE	1	CPR
D56	MA165TA5VT	DIODE	1	CPL
D57	MA165	DIODE	1	MKB1
D57	MA165TA5	DIODE	1	CPR
D58	MA165	DIODE	1	MKB1
D58	MA165TA5	DIODE	1	CPR

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D59	MA165	DIODE	1	MKB1
D59	MA165TA5	DIODE	1	CPR
D60	MA165	DIODE	1	MKB1
D60	MA165TA5	DIODE	1	CPR
D61	MA165	DIODE	1	MKB1
D61	MA165TA5	DIODE	1	CPR
D62	MA165	DIODE	1	MKB1
D62	MA165TA5	DIODE	1	CPR
D63	MA165	DIODE	1	MKB1
D63	MA165TA5	DIODE	1	CPR
D64	MA165	DIODE	1	MKB1
D64	MA165TA5	DIODE	1	CPR
D65	MA165	DIODE	1	MKB1
D65	MA165TA5	DIODE	1	CPR
D66	MA165	DIODE	1	MKB1
D66	MA165TA5	DIODE	1	CPR
D67	MA165	DIODE	1	MKB1
D67	MA165TA5	DIODE	1	CPR
D68	MA165	DIODE	1	MKB1
D68	MA165TA5	DIODE	1	CPR
D69	MA165	DIODE	1	MKB1
D69	MA165TA5	DIODE	1	CPR
D70	MA165	DIODE	1	MKB1
D70	MA165TA5	DIODE	1	CPR
D71	MA165	DIODE	1	MKB1
D71	MA165TA5	DIODE	1	CPR
D72	MA165	DIODE	1	MKB1
D72	MA165TA5	DIODE	1	CPR
D73	MA165	DIODE	1	MKB1
D74	MA165	DIODE	1	MKB1
D75	MA165	DIODE	1	MKB1
D76	MA165	DIODE	1	MKB1
D77	MA165	DIODE	1	MKB1
D78	MA165	DIODE	1	MKB1
D79	MA165	DIODE	1	MKB1
D80	MA165	DIODE	1	MKB1
D81	MA165	DIODE	1	MKB1
D82	MA165	DIODE	1	MKB1
D83	MA165	DIODE	1	MKB1
D84	MA165	DIODE	1	MKB1
D85	MA165	DIODE	1	MKB1
D86	MA165	DIODE	1	MKB1
D87	MA165	DIODE	1	MKB1
D88	MA165	DIODE	1	MKB1
D89	MA165	DIODE	1	MKB2
D90	MA165	DIODE	1	MKB2
D91	MA165	DIODE	1	MKB2
D92	MA165	DIODE	1	MKB2
D93	MA165	DIODE	1	MKB2
D94	MA165	DIODE	1	MKB2
D95	MA165	DIODE	1	MKB2
D96	MA165	DIODE	1	MKB2
D97	MA165	DIODE	1	MKB2
D98	MA165	DIODE	1	MKB2

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D99	MA165	DIODE	1	MKB2
D100	LN282RPXVTX3	LED(RED)	1	CPL
D100	MA165	DIODE	1	MKB2
D100	SEL4117RM	LED(RED)	1	CPR
D101	LN282RPXVTX3	LED(RED)	1	CPL
D101	MA121TX	DIODE	1	MAIN
D101	MA165	DIODE	1	MKB2
D102	LN282RPXVTX3	LED(RED)	1	CPL
D102	MA121TX	DIODE	1	MAIN
D102	MA165	DIODE	1	MKB2
D103	LN282RPXVTX3	LED(RED)	1	CPL
D103	MA159A	DIODE	1	MAIN
D103	MA165	DIODE	1	MKB2
D103	SEL4417GM	LED(GREEN)	1	CPR
D104	LN282RPXVTX3	LED(RED)	1	CPL
D104	MA165	DIODE	1	MKB2
D104	MA8056	ZENER	1	MAIN
D104	SEL4417GM	LED(GREEN)	1	CPR
D105	LN282RPXVTX3	LED(RED)	1	CPL
D105	MA165	DIODE	1	MKB2
D105	SEL4417GM	LED(GREEN)	1	CPR
D106	LN282RPXVTX3	LED(RED)	1	CPL
D106	MA165	DIODE	1	MKB2
D106	SEL4417GM	LED(GREEN)	1	CPR
D107	LN282RPXVTX3	LED(RED)	1	CPL
D107	MA165	DIODE	1	MKB2
D107	SEL4417GM	LED(GREEN)	1	CPR
D108	MA165	DIODE	1	MKB2
D109	MA165	DIODE	1	MKB2
D110	LN382GPXVTX3	LED(GREEN)	1	CPL
D110	MA165	DIODE	1	MKB2
D110	SEL4117RM	LED(RED)	1	CPR
D111	LN382GPXVTX3	LED(GREEN)	1	CPL
D111	MA165	DIODE	1	MKB2
D111	SEL4117RM	LED(RED)	1	CPR
D112	LN382GPXVTX3	LED(GREEN)	1	CPL
D112	MA165	DIODE	1	MKB2
D112	SEL4117RM	LED(RED)	1	CPR
D113	MA165	DIODE	1	MKB2
D113	SEL4117RM	LED(RED)	1	CPR
D114	MA165	DIODE	1	MKB2
D114	SEL4117RM	LED(RED)	1	CPR
D115	LN282RPXVTX3	LED(RED)	1	CPL
D115	MA165	DIODE	1	MKB2
D116	LN282RPXVTX3	LED(RED)	1	CPL
D116	MA165	DIODE	1	MKB2
D116	SEL4117RM	LED(RED)	1	CPR
D117	LN282RPXVTX3	LED(RED)	1	CPL
D117	MA165	DIODE	1	MKB2
D117	SEL4117RM	LED(RED)	1	CPR
D118	MA165	DIODE	1	MKB2
D119	MA165	DIODE	1	MKB2
D120	LN282RPXVTX3	LED(RED)	1	CPL
D120	MA165	DIODE	1	MKB2

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D120	SEL4117RM	LED(RED)	1	CPR
D121	LN282RPXVTX3	LED(RED)	1	CPL
D121-76	MA165	DIODE	56	MKB2
D121	SEL4117RM	LED(RED)	1	CPR
D122	LN282RPXVTX3	LED(RED)	1	CPL
D122	SEL4117RM	LED(RED)	1	CPR
D123	LN282RPXVTX3	LED(RED)	1	CPL
D123	SEL4117RM	LED(RED)	1	CPR
D124	LN282RPXVTX3	LED(RED)	1	CPL
D124	SEL4117RM	LED(RED)	1	CPR
D125	LN282RPXVTX3	LED(RED)	1	CPL
D125	SEL4117RM	LED(RED)	1	CPR
D126	LN282RPXVTX3	LED(RED)	1	CPL
D126	SEL4117RM	LED(RED)	1	CPR
D127	LN282RPXVTX3	LED(RED)	1	CPL
D127	SEL4117RM	LED(RED)	1	CPR
D130	LN282RPXVTX3	LED(RED)	1	CPL
D130	SEL4117RM	LED(RED)	1	CPR
D131	LN282RPXVTX3	LED(RED)	1	CPL
D131	SEL4117RM	LED(RED)	1	CPR
D132	LN382GPXVTX3	LED(GREEN)	1	CPL
D132	SEL4117RM	LED(RED)	1	CPR
D133	LN382GPXVTX3	LED(GREEN)	1	CPL
D133	SEL4117RM	LED(RED)	1	CPR
D134	SEL4117RM	LED(RED)	1	CPR
D135	LN382GPXVTX3	LED(GREEN)	1	CPL
D135	SEL4117RM	LED(RED)	1	CPR
D136	LN282RPXVTX3	LED(RED)	1	CPL
D136	SEL4117RM	LED(RED)	1	CPR
D137	LN282RPXVTX3	LED(RED)	1	CPL
D137	SEL4117RM	LED(RED)	1	CPR
D140	LN282RPXVTX3	LED(RED)	1	CPL
D140	SEL4417GM	LED(GREEN)	1	CPR
D141	LN282RPXVTX3	LED(RED)	1	CPL
D141	SEL4417GM	LED(GREEN)	1	CPR
D142	LN382GPXVTX3	LED(GREEN)	1	CPL
D142	SEL4417GM	LED(GREEN)	1	CPR
D143	LN382GPXVTX3	LED(GREEN)	1	CPL
D143	SEL4417GM	LED(GREEN)	1	CPR
D144	LN382GPXVTX3	LED(GREEN)	1	CPL
D144	SEL4417GM	LED(GREEN)	1	CPR
D145	SEL4417GM	LED(GREEN)	1	CPR
D148	SEL4117RM	LED(RED)	1	CPR
D149	LN282RPXVTX3	LED(RED)	1	CPL
D149	SEL4117RM	LED(RED)	1	CPR
D150	LN282RPXVTX3	LED(RED)	1	CPL
D150	SEL4117RM	LED(RED)	1	CPR
D151	LN282RPXVTX3	LED(RED)	1	CPL
D151	SEL4117RM	LED(RED)	1	CPR
D152	LN282RPXVTX3	LED(RED)	1	CPL
D152	SEL4117RM	LED(RED)	1	CPR
D153	LN282RPXVTX3	LED(RED)	1	CPL
D153	SEL4117RM	LED(RED)	1	CPR
D154	LN282RPXVTX3	LED(RED)	1	CPL

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D154	SEL4117RM	LED(RED)	1	CPR
D155	LN282RPXVTX3	LED(RED)	1	CPL
F1	XBA1C40NU100	4A 125V	1	⚠ ACP(P PC)
F1	XBA2C16TB0	T1.6AL 250V	1	⚠ ACP(X XS XD XT XA)
F2	XBA2C10TB0	T1AL 250V	1	⚠ ACP(X XS XD XT XA)
F3	XBA2C10TB0	T1AL 250V	1	⚠ ACP(EXCEPT P PC)
F4	XBA1C25NU100	T2AL 250V	1	⚠ AS(P PC)
F4	XBA2C20TB0	FUSE 2.5A 125V	1	⚠ AS(EXCEPT P PC)
F5	XBA1C25NU100	T2AL 251V	1	⚠ AS(P PC)
F5	XBA2C20TB0	FUSE 2.5A 125V	1	⚠ AS(EXCEPT P PC)
IC1	BA10393F-E2	COMPERATIR	1	MAIN
IC1	M37471M2196S	8BIT MICRO COMPUTER	1	CPL
IC1	M37471M2196S	8BIT MICRO COMPUTER	1	CPR
IC1	M5F78M15L	REGULATOR	1	⚠ AS
IC1	SVIGTLP513	PHOTO COUPLER	1	JACK
IC2	D74HC138P	DECODER	1	MKB0
IC2	HD74LS07P	HEX BUFFER	1	CPL
IC2	HD74LS07P	HEX BUFFER	1	CPR
IC2	M5F79M15L	REGULATOR	1	⚠ AS
IC2	TMP95C061BF	MICRO COMPUTER	1	MAIN
IC3	D74HC138P	DECODER	1	MKB2
IC3	QSIGX3C32023	MASK-PRG	1	MAIN
IC4	D74HC138P	DECODER	1	MKB2
IC4	TC7W08FTE12L	CMOS	1	MAIN
IC5	M5218AL	OPAMP	1	AS
IC5	TC7S08FTE85L	LMOS	1	MAIN
IC6	M5218AL	OPAMP	1	AS
IC6	SJSG1SM420A	IC SOCKET	1	MAIN
IC7	D74HC138GS	CMOS	1	MAIN
IC7	M5218AL	OPAMP	1	AS
IC8	M5218AL	OPAMP	1	AS
IC8	M5M44170AJ7S	4M DRAM	1	MAIN
IC9	D72070GF3BE	MICRO CONTROLER	1	MAIN
IC9	M5218AL	OPAMP	1	AS
IC10	M5218AL	OPAMP	1	AS
IC10	MN1382KTX	MN1382	1	MAIN
IC101	M5223FPE1	OPAMP	1	MAIN
IC102	D97315GD201	D95mk2	1	MAIN
IC103	M5256DFP10VL	SRAM	1	MAIN
IC104	D74HC08GS	AND	1	MAIN
IC105	PCM1734EA-E2	DAC	1	MAIN
IC106	QSIGX3C64015	MASK-ROM	1	MAIN
IC107	M5218AFPE3	OP AMP	1	MAIN
IC108	M5218AFPE3	OP AMP	1	MAIN
IP101	ICP-N10T104	IC PROTECTOR	1	MAIN
JK1	QJSG007AA	PEDAL IN	1	JACK
JK1	SJJG100A	HP JACK	1	JACK2

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
JK1	SJVD0203B	AC INLET	1	⚠ ACP
JK2	SJJG100A	HP JACK	1	JACK2
JK3	QJSG016AA	MIDI THRU	1	JACK
JK4	QJSG016AA	MIDI THRU	1	JACK
JK5	QJJG003AA	LINE OUT L	1	JACK
JK6	QJJG003AA	LINE OUT L	1	JACK
JK7	QJJG003AA	LINE OUT L	1	JACK
JK8	QJJG003AA	LINE OUT L	1	JACK
JP2	ERD25V0R00T	0	1	MAIN
JP101	ERJ6GEY0R00V	0	1	MAIN
JP102	ERJ6GEY0R00V	0	1	MAIN
L1	QLQGT1B600MA	COIL	1	JACK
L1	QLQGT1T121LA	COIL	1	MAIN
L1	QLQGT2T100SA	10UHX2	1	⚠ ACP
L1	QLQGT3T150SA	COIL	1	JACK2
L1	QLQGT3T150SA	COIL	1	AS
L2	QLQGT3T150SA	COIL	1	JACK
L3	QLQGT3T150SA	COIL	1	JACK
L4	QLQGT1B800MB	COIL	1	⚠ AS
L4	QLQGT3T150SA	COIL	1	JACK
L5	QLQGT3T150SA	COIL	1	JACK
L6	QLZG015A	COIL	1	JACK
L7	QLBG002A	COIL	1	JACK
P1	QPGG0485AA	PACKING CASE	1	
P1	QPGG0485AB	PACKING CASE	1	SX-PR53M
PCB 1	SXPG235711	MAIN P.C.B	1	
PCB 2	SXPG226541A	CPL P.C.B	1	
PCB 3	SXPG226541B	CPR P.C.B	1	
PCB 4	SXPG226531D	HP(JACK2) P.C.B	1	
PCB 5	SXPG226531C	INV P.C.B	1	
PCB 6	SXPG219661	JACK P.C.B	1	
PCB 7	SXPG2170311	AS P.C.B	1	(P,PC)
PCB 7	SXPG2170301	AS P.C.B	1	(EXCEPT P PC)
PCB 8	SXPG215581	ACP P.C.B	1	(P,PC)
PCB 8	SXPG215561	ACP P.C.B	1	(EX EB EZ EG EF GN)
PCB 8	SXPG2155101	ACP P.C.B	1	(X XS XD XA XT)
PCB 9	SXPG218231	PKB P.C.B	1	
PCB 10	SXPG231111A	MKB1 P.C.B	1	
PCB 11	SXPG231111B	MKB2 P.C.B	1	
Q1	2SA830STPB	TRANSISTOR	1	CPL
Q1	2SA830STPB	TRANSISTOR	1	CPR
Q1	2SA933STRS	TRANSISTOR	1	JACK
Q1	2SD592ARS	TRANSISTOR	1	INV
Q1	2SD592ARS	TRANSISTOR	1	AS
Q1	2SD601AQ	TRANSISTOR	1	MAIN
Q2	2SA830STPB	TRANSISTOR	1	CPL
Q2	2SA830STPB	TRANSISTOR	1	CPR
Q2	2SA933STRS	TRANSISTOR	1	JACK

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q2	2SB621ARS	TRANSISTOR	1	AS
Q2	2SD592ARS	TRANSISTOR	1	INV
Q2	UN511NTX	TRANSISTOR	1	MAIN
Q3	2SA830STPB	TRANSISTOR	1	CPL
Q3	2SA830STPB	TRANSISTOR	1	CPR
Q3	2SD592ARS	TRANSISTOR	1	AS
Q3	UN511NTX	TRANSISTOR	1	MAIN
Q4	2SA830STPB	TRANSISTOR	1	CPL
Q4	2SA830STPB	TRANSISTOR	1	CPR
Q4	2SB621ARS	TRANSISTOR	1	AS
Q4	UN5216TX	TRANSISTOR	1	MAIN
Q5	2SA1015TPE2	TRANSISTOR	1	AS
Q5	2SA830STPB	TRANSISTOR	1	CPL
Q5	2SA830STPB	TRANSISTOR	1	CPR
Q5	2SB709AR	TRANSISTOR	1	MAIN
Q6	2SA1015TPE2	TRANSISTOR	1	AS
Q6	2SA830STPB	TRANSISTOR	1	CPL
Q6	2SA830STPB	TRANSISTOR	1	CPR
Q6	2SB709AR	TRANSISTOR	1	MAIN
Q7	2SA1643	TRANSISTOR	1	MAIN
Q7	2SB621ARS	TRANSISTOR	1	CPL
Q7	2SB621ARS	TRANSISTOR	1	CPR
Q7	2SC1815TPE2	TRANSISTOR	1	AS
Q8	2SB621ARS	TRANSISTOR	1	CPL
Q8	2SB621ARS	TRANSISTOR	1	CPR
Q8	2SC1815TPE2	TRANSISTOR	1	MAIN
Q9	2SB621ARS	TRANSISTOR	1	CPR
Q9	2SD601AQ	TRANSISTOR	1	MAIN
Q10	2SB709AR	TRANSISTOR	1	MAIN
Q11	2SC1815TPE2	TRANSISTOR	1	AS
Q11	2SD601AQ	TRANSISTOR	1	MAIN
Q12	2SB709AR	TRANSISTOR	1	MAIN
Q12	2SC1815TPE2	TRANSISTOR	1	AS
Q13	2SA1015TPE2	TRANSISTOR	1	AS
Q13	2SD601AQ	TRANSISTOR	1	MAIN
Q14	2SC1815TPE2	TRANSISTOR	1	AS
Q15	2SA1015TPE2	TRANSISTOR	1	AS
Q16	2SA1725PY	TRANSISTOR	1	⚠ AS
Q17	2SC4511PY	TRANSISTOR	1	⚠ AS
Q18	2SC1815TPE2	TRANSISTOR	1	AS
Q19	2SA1015TPE2	TRANSISTOR	1	AS
Q20	2SA1725PY	TRANSISTOR	1	⚠ AS
Q21	2SC4511PY	TRANSISTOR	1	⚠ AS
Q22	2SA1015TPE2	TRANSISTOR	1	AS
Q101	2SD592ARS	TRANSISTOR	1	MAIN
Q102	2SC1815TPE2	TRANSISTOR	1	MAIN
R1	ERDS2TJ101	100	1	CPR
R1	ERDS2TJ102	1K	1	JACK
R1	ERDS2TJ153	15K	1	INV
R1	ERG1SJ470	47	1	⚠ JACK2
R1	ERJ6GEYJ103V	10K	1	MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2	ERDS2TJ101	100	1	CPR
R2	ERDS2TJ102	1K	1	JACK
R2	ERDS2TJ103	10K	1	CPL
R2	ERDS2TJ153	16K	1	INV
R2	ERG1SJ470	47	1	⚠ JACK2
R2	ERJ6GEYJ103V	10K	1	MAIN
R3	ERDS2T0	0	1	CPL
R3	ERDS2TJ101	100	1	CPR
R3	ERG1SJ470	47	1	⚠ JACK2
R3	ERJ6GEY0R00V	0	1	MAIN
R4	ERDS2TJ101	100	1	CPL
R4	ERDS2TJ101	100	1	CPR
R4	ERDS2TJ473T	47K	1	JACK
R4	ERG1SJ470	47	1	⚠ JACK2
R4	ERJ6GEY0R00V	0	1	MAIN
R5	ERDS2TJ101	100	1	CPR
R5	ERDS2TJ102	1K	1	JACK
R5	ERDS2TJ471	470	1	CPL
R5	ERJ6GEY0R00V	0	1	MAIN
R6	ERDS2TJ101	100	1	CPR
R6	ERDS2TJ102	1K	1	JACK
R6	ERDS2TJ221T	220	1	CPL
R6	ERJ6GEYJ224V	220K	1	MAIN
R7	ERDS2TJ102	1K	1	JACK
R7	ERDS2TJ221T	220	1	CPL
R7	ERDS2TJ680T	68	1	CPR
R7	ERJ6GEYJ104V	100K	1	MAIN
R8	ERDS2TJ471	470	1	CPL
R8	ERDS2TJ472	4.7k	1	PKB
R8	ERDS2TJ680T	68	1	CPR
R8	ERJ6GEYJ471V	470	1	MAIN
R9	ERDS2TJ103	10K	1	CPL
R9	ERDS2TJ103	10K	1	AS
R9	ERDS2TJ472	4.7k	1	PKB
R9	ERDS2TJ680T	68	1	CPR
R9	ERJ6GEYJ471V	470	1	MAIN
R10	ERDS2TJ103	10K	1	CPL
R10	ERDS2TJ103	10K	1	AS
R10	ERJ6GEYJ471V	470	1	MAIN
R11	ERDS2TJ153	15K	1	AS
R11	ERJ6GEYJ471V	470	1	MAIN
R12	ERDS2TJ103	10K	1	CPR
R12	ERDS2TJ682	6.8K	1	AS
R12	ERJ6GEYJ471V	470	1	MAIN
R13	ERDS2TJ103	10K	1	CPR
R13	ERDS2TJ151	150	1	JACK
R13	ERDS2TJ153	15K	1	AS
R13	ERJ6GEYJ473V	47K	1	MAIN
R14	ERDS2TJ103	10K	1	CPR
R14	ERDS2TJ330T	33	1	JACK
R14	ERDS2TJ683T	68K	1	AS
R14	ERJ6GEYJ154V	150K	1	MAIN
R15	ERDS2TJ103	10K	1	CPR

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R15	ERDS2TJ104T	100K	1	CPL
R15	ERDS2TJ104T	100K	1	JACK
R15	ERDS2TJ224T	220K	1	AS
R15	ERJ6GEYJ683V	68K	1	MAIN
R16	ERDS2TJ103	10K	1	CPR
R16	ERDS2TJ104T	100K	1	CPL
R16	ERDS2TJ221T	220	1	JACK
R16	ERDS2TJ683T	68K	1	AS
R16	ERJ6GEYJ473V	47K	1	MAIN
R17	ERDS2TJ103	10K	1	CPL
R17	ERDS2TJ103	10K	1	CPR
R17	ERDS2TJ331T	330	1	JACK
R17	ERJ6GEYJ154V	150K	1	MAIN
R18	ERDS2TJ103	10K	1	CPL
R18	ERDS2TJ103	10K	1	CPR
R18	ERDS2TJ473T	47K	1	AS
R18	ERJ6GEYJ154V	150K	1	MAIN
R19	ERDS2TJ103	10K	1	CPL
R19	ERDS2TJ103	10K	1	CPR
R19	ERDS2TJ473T	47K	1	AS
R19	ERJ6GEYJ472V	4.7K	1	MAIN
R20	ERDS2TJ103	10K	1	CPL
R20	ERDS2TJ103	10K	1	CPR
R20	ERJ6GEYJ102V	1K	1	MAIN
R21	ERDS2TJ103	10K	1	CPL
R21	ERDS2TJ103	10K	1	CPR
R21	ERDS2TJ153	15K	1	AS
R21	ERDS2TJ681T	680	1	JACK
R21	ERJ6GEYJ222V	2.2K	1	MAIN
R22	ERDS2TJ103	10K	1	CPL
R22	ERDS2TJ103	10K	1	CPR
R22	ERDS2TJ223T	22K	1	AS
R22	ERDS2TJ681T	680	1	JACK
R22	ERJ6GEYJ331V	330	1	MAIN
R23	ERDS2TJ103	10K	1	CPL
R23	ERDS2TJ103	10K	1	CPR
R23	ERJ6GEYJ101V	100	1	MAIN
R24	ERDS2TJ103	10K	1	CPL
R24	ERDS2TJ103	10K	1	CPR
R24	ERJ6GEYJ102V	1K	1	MAIN
R25	ERDS2TJ103	10K	1	CPR
R25	ERDS2TJ473T	47K	1	AS
R25	ERJ6GEYJ101V	100	1	MAIN
R26	ERDS2TJ103	10K	1	CPL
R26	ERDS2TJ473T	47K	1	AS
R26	ERJ6GEYJ102V	1K	1	MAIN
R27	ERDS2T0	0	1	CPR
R27	ERDS2TJ103	10K	1	CPL
R27	ERDS2TJ224T	220K	1	AS
R27	ERJ6GEYJ104V	100K	1	MAIN
R28	ERDS2TJ103	10K	1	CPL
R28	ERDS2TJ103	10K	1	CPR
R28	ERDS2TJ682	6.8K	1	AS
R28	ERJ6GEYJ151V	150	1	MAIN

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R29	ERDS2TJ103	10K	1	CPL
R29	ERDS2TJ471	470	1	CPR
R29	ERJ6GEYJ151V	150	1	MAIN
R30	ERDS2TJ103	10K	1	CPL
R30	ERDS2TJ221T	220	1	CPR
R30	ERJ6GEYJ472V	4.7K	1	MAIN
R31	ERDS2TJ103	10K	1	CPL
R31	ERDS2TJ153	15K	1	AS
R31	ERDS2TJ221T	220	1	CPR
R31	ERJ6GEYJ103V	10K	1	MAIN
R32	ERDS2TJ101	100	1	CPL
R32	ERDS2TJ223T	22K	1	AS
R32	ERDS2TJ471	470	1	CPR
R32	ERJ6GEYJ151V	150	1	MAIN
R33	ERDS2TJ101	100	1	CPL
R33	ERDS2TJ103	10K	1	AS
R33	ERJ6GEYJ151V	150	1	MAIN
R34	ERDS2TJ101	100	1	CPL
R34	ERDS2TJ103	10K	1	CPR
R34	ERDS2TJ103	10K	1	AS
R34	ERJ6GEYJ103V	10K	1	MAIN
R35	ERDS2TJ101	100	1	CPL
R35	ERDS2TJ103	10K	1	CPR
R35	ERDS2TJ103	10K	1	AS
R35	ERJ6GEYJ105V	1/10W 1M	1	MAIN
R36	ERDS2TJ101	100	1	CPL
R36	ERDS2TJ103	10K	1	AS
R36	ERJ6GEYJ101V	100	1	MAIN
R37	ERDS2TJ101	100	1	CPL
R37	ERDS2TJ103	10K	1	AS
R37	ERJ6GEYJ471V	470	1	MAIN
R38	ERDS2TJ103	10K	1	AS
R38	ERDS2TJ680T	68	1	CPL
R38	ERJ6GEYJ103V	10K	1	MAIN
R39	ERDS2TJ332T	3.3K	1	AS
R39	ERDS2TJ680T	68	1	CPL
R39	ERJ6GEYJ221V	220	1	MAIN
R41	ERDS2TJ334	330K	1	AS
R41	ERJ6GEYJ221V	220	1	MAIN
R42	ERDS2TJ334	330K	1	AS
R42	ERJ6GEYJ221V	220	1	MAIN
R43	ERDS2TJ220	22	1	AS
R43	ERJ6GEYJ472V	4.7K	1	MAIN
R44	ERJ6GEYJ470V	47	1	MAIN
R45	ERDS2TJ334	330K	1	AS
R45	ERJ6GEYJ470V	47	1	MAIN
R46	ERDS2TJ220	22	1	AS
R47	ERDS2TJ334	330K	1	AS
R47	ERJ6GEYJ472V	4.7K	1	MAIN
R48	ERDS2FJ222	2.2K	1	AS
R48	ERJ6GEYJ101V	100	1	MAIN
R49	ERDS2FJ222	2.2K	1	AS
R49	ERJ6GEY0R00V	0	1	MAIN
R50	ERD2FCVG220	22	1	⚠AS

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R51	ERD2FCVG220	22	1	⚠AS
R51	ERJ6GEY0R00V	0	1	MAIN
R52	ERDS2TJ103	10K	1	AS
R53	ERDS2TJ103	10K	1	AS
R53	ERJ6GEYJ102V	1K	1	MAIN
R54	ERJ6GEYJ682V	6.8K	1	MAIN
R54	ERQ14AJ2R0	2	1	⚠AS
R55	ERJ6GEYJ470V	47	1	MAIN
R55	ERQ14AJ2R0	2	1	⚠AS
R56	ERD2FCVJ6R8	6.8	1	⚠ AS
R56	ERJ6GEYJ471V	470	1	MAIN
R57	ERD2FCJ6R8P	6.8	1	⚠ AS
R57	ERJ6GEYJ101V	100	1	MAIN
R58	ERDS2TJ103	10K	1	AS
R58	ERJ6GEYJ103V	10K	1	MAIN
R59	ERDS2TJ103	10K	1	AS
R59	ERJ6GEYJ101V	100	1	MAIN
R60	ERDS2TJ103	10K	1	AS
R60	ERJ6GEYJ102V	1K	1	MAIN
R61	ERDS2TJ472	4.7K	1	AS
R61	ERJ6GEYJ473V	47K	1	MAIN
R62	ERDS2TJ472	4.7K	1	AS
R62	ERJ6GEYJ223V	22K	1	MAIN
R63	ERJ6GEYJ103V	10K	1	MAIN
R64	ERJ6GEYJ331V	330	1	MAIN
R65	ERJ6GEYJ153V	15K	1	MAIN
R66	ERJ6GEYJ472V	4.7K	1	MAIN
R67	ERJ6GEYJ472V	4.7K	1	MAIN
R68	ERJ6GEYJ103V	10K	1	MAIN
R69	ERJ6GEYJ102V	1K	1	MAIN
R74	ERJ6GEYJ472V	4.7K	1	MAIN
R78	ERDS2T0	0	1	AS
R79	ERDS2T0	0	1	AS
R80	ERDS2TJ104T	100K	1	AS
R81	ERDS2TJ104T	100K	1	AS
R83	ERDS2TJ103	10K	1	AS
R84	ERDS2TJ473T	47K	1	AS
R85	ERDS2TJ332T	3.3K	1	AS
R86	ERDS2TJ334	330K	1	AS
R89	ERDS2TJ153	15K	1	AS
R90	ERDS2TJ102	1K	1	AS
R91	ERDS2FJ222	2.2K	1	AS
R92	ERDS2FJ222	2.2K	1	AS
R93	EROS2TKF1691	1.69K	1	AS
R94	ER0S2TKF1001	1K	1	AS
R95	ER0S2TKF1001	1K	1	AS
R96	ERD2FCVG101	100	1	⚠ AS
R97	ERD2FCVG101	100	1	⚠ AS
R98	ERDS2TJ331T	330	1	AS
R99	ERDS2TJ331T	330	1	AS
R100	ERD25FVJ4R7	4.7	1	⚠AS

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R101	ERDS2TJ334	330K	1	AS
R101	ERJ6GEYJ221V	220	1	MAIN
R102	ERJ6GEYJ102V	1K	1	MAIN
R103	ERJ6GEYJ102V	1K	1	MAIN
R104	ERDS2TJ153	15K	1	AS
R104	ERJ6GEYJ102V	1K	1	MAIN
R105	ERDS2TJ102	1K	1	AS
R105	ERJ6GEYJ103V	10K	1	MAIN
R106	ERDS2FJ222	2.2K	1	AS
R106	ERJ6GEYJ103V	10K	1	MAIN
R107	ERDS2FJ222	2.2K	1	AS
R107	ERJ6GEYJ221V	220	1	MAIN
R108	ERJ6GEYJ221V	220	1	MAIN
R108	EROS2TKF1691	1.69K	1	AS
R109	ER0S2TKF1001	1K	1	AS
R109	ERJ6GEYJ221V	220	1	MAIN
R110	ER0S2TKF1001	1K	1	AS
R110	ERJ6GEYJ105V	1/10W 1M	1	MAIN
R111	ERD2FCVG101	100	1	⚠ AS
R111	ERJ6GEYJ470V	47	1	MAIN
R112	ERDS2TJ331T	330	1	AS
R112	ERJ6GEYJ563V	56K	1	MAIN
R113	ERDS2TJ331T	330	1	AS
R113	ERJ6GEYJ563V	56K	1	MAIN
R114	ERD2FCVG101	100	1	⚠ AS
R114	ERJ6GEYJ472V	4.7K	1	MAIN
R115	ERD25FVJ4R7	4.7	1	⚠ AS
R115	ERJ6GEYJ472V	4.7K	1	MAIN
R116	ERDS2TJ331T	330	1	AS
R116	ERJ6GEYJ102V	1K	1	MAIN
R117	ERDS2TJ331T	330	1	AS
R117	ERJ6GEYJ332V	3.3K	1	MAIN
R118	ERD2FCVJ6R8	6.8	1	⚠ AS
R118	ERJ6GEYJ332V	3.3K	1	MAIN
R119	ERJ6GEYJ472V	4.7K	1	MAIN
R120	ERJ6GEYJ472V	4.7K	1	MAIN
R121	ERJ6GEYJ682V	6.8K	1	MAIN
R122	ERJ6GEYJ682V	6.8K	1	MAIN
R123	ERJ6GEYJ682V	6.8K	1	MAIN
R124	ERJ6GEYJ682V	6.8K	1	MAIN
R125	ERJ6GEYJ221V	220	1	MAIN
R126	ERJ6GEYJ223V	22K	1	MAIN
R127	ERJ6GEYJ223V	22K	1	MAIN
R128	ERJ6GEYJ333V	33K	1	MAIN
R129	ERJ6GEYJ333V	33K	1	MAIN
R201	ERD25FVJ4R7	4.7	1	⚠ AS
R202	ERD25FVJ4R7	4.7	1	⚠ AS
S1	QSPG1010AA	SW POWER	1	⚠
S1	QSTGT001AA	LEVER SWITCH	1	PKB
S3	QSTGT001AA	LEVER SWITCH	1	PKB

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
SP1-2	QASG14P02A	14cm 6É	2	
SW1	EVQ21507K	PUSH SWITCH	1	CPL
SW1	EVQ21507K	PUSH SWITCH	1	CPR
SW1	QSRGT005AA	VOLTAGE SELECTOR	1	⚠ ACP(X XS XD XT XA)
SW2	EVQ21507K	PUSH SWITCH	1	CPL
SW2	EVQ21507K	PUSH SWITCH	1	CPR
SW3	EVQ21507K	PUSH SWITCH	1	CPL
SW3	EVQ21507K	PUSH SWITCH	1	CPR
SW4	EVQ21507K	PUSH SWITCH	1	CPR
SW5	EVQ21507K	PUSH SWITCH	1	CPR
SW6	EVQ21507K	PUSH SWITCH	1	CPR
SW7	EVQ21507K	PUSH SWITCH	1	CPL
SW8	EVQ21507K	PUSH SWITCH	1	CPL
SW9	EVQ21507K	PUSH SWITCH	1	CPL
SW9	EVQ21507K	PUSH SWITCH	1	CPR
SW10	EVQ21507K	PUSH SWITCH	1	CPL
SW10	EVQ21507K	PUSH SWITCH	1	CPR
SW11	EVQ21507K	PUSH SWITCH	1	CPL
SW11	EVQ21507K	PUSH SWITCH	1	CPR
SW12	EVQ21507K	PUSH SWITCH	1	CPR
SW13	EVQ21507K	PUSH SWITCH	1	CPR
SW14	EVQ21507K	PUSH SWITCH	1	CPR
SW15	EVQ21507K	PUSH SWITCH	1	CPL
SW15	EVQ21507K	PUSH SWITCH	1	CPR
SW16	EVQ21507K	PUSH SWITCH	1	CPL
SW17	EVQ21507K	PUSH SWITCH	1	CPR
SW18	EVQ21507K	PUSH SWITCH	1	CPL
SW19	EVQ21507K	PUSH SWITCH	1	CPL
SW19	EVQ21507K	PUSH SWITCH	1	CPR
SW20	EVQ21507K	PUSH SWITCH	1	CPL
SW20	EVQ21507K	PUSH SWITCH	1	CPR
SW21	EVQ21507K	PUSH SWITCH	1	CPL
SW21	EVQ21507K	PUSH SWITCH	1	CPR
SW22	EVQ21507K	PUSH SWITCH	1	CPL
SW22	EVQ21507K	PUSH SWITCH	1	CPR
SW23	EVQ21507K	PUSH SWITCH	1	CPL
SW23	EVQ21507K	PUSH SWITCH	1	CPR
SW24	EVQ21507K	PUSH SWITCH	1	CPL
SW24	EVQ21507K	PUSH SWITCH	1	CPR
SW25	EVQ21507K	PUSH SWITCH	1	CPL
SW25	EVQ21507K	PUSH SWITCH	1	CPR
SW26	EVQ21507K	PUSH SWITCH	1	CPL
SW26	EVQ21507K	PUSH SWITCH	1	CPR
SW27	EVQ21507K	PUSH SWITCH	1	CPL
SW27	EVQ21507K	PUSH SWITCH	1	CPR
SW28	EVQ21507K	PUSH SWITCH	1	CPL
SW28	EVQ21507K	PUSH SWITCH	1	CPR
SW29	EVQ21507K	PUSH SWITCH	1	CPL
SW29	EVQ21507K	PUSH SWITCH	1	CPR
SW30	EVQ21507K	PUSH SWITCH	1	CPL
SW30	EVQ21507K	PUSH SWITCH	1	CPR
SW31	EVQ21507K	PUSH SWITCH	1	CPL
SW31	EVQ21507K	PUSH SWITCH	1	CPR

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
SW32	EVQ21507K	PUSH SWITCH	1	CPL
SW32	EVQ21507K	PUSH SWITCH	1	CPR
SW33	EVQ21507K	PUSH SWITCH	1	CPL
SW33	EVQ21507K	PUSH SWITCH	1	CPR
SW34	EVQ21507K	PUSH SWITCH	1	CPL
SW34	EVQ21507K	PUSH SWITCH	1	CPR
SW35	EVQ21507K	PUSH SWITCH	1	CPL
SW35	EVQ21507K	PUSH SWITCH	1	CPR
SW36	EVQ21507K	PUSH SWITCH	1	CPR
SW37	EVQ21507K	PUSH SWITCH	1	CPR
SW38	EVQ21507K	PUSH SWITCH	1	CPR
SW39	EVQ21507K	PUSH SWITCH	1	CPR
SW40	EVQ21507K	PUSH SWITCH	1	CPR
SW41	EVQ21507K	PUSH SWITCH	1	CPL
SW41	EVQ21507K	PUSH SWITCH	1	CPR
SW42	EVQ21507K	PUSH SWITCH	1	CPL
SW42	EVQ21507K	PUSH SWITCH	1	CPR
SW43	EVQ21507K	PUSH SWITCH	1	CPL
SW43	EVQ21507K	PUSH SWITCH	1	CPR
SW44	EVQ21507K	PUSH SWITCH	1	CPL
SW44	EVQ21507K	PUSH SWITCH	1	CPR
SW45	EVQ21507K	PUSH SWITCH	1	CPL
SW45	EVQ21507K	PUSH SWITCH	1	CPR
SW46	EVQ21507K	PUSH SWITCH	1	CPL
SW46	EVQ21507K	PUSH SWITCH	1	CPR
SW47	EVQ21507K	PUSH SWITCH	1	CPL
SW47	EVQ21507K	PUSH SWITCH	1	CPR
SW48	EVQ21507K	PUSH SWITCH	1	CPL
SW48	EVQ21507K	PUSH SWITCH	1	CPR
SW49	EVQ21507K	PUSH SWITCH	1	CPL
SW49	EVQ21507K	PUSH SWITCH	1	CPR
SW50	EVQ21507K	PUSH SWITCH	1	CPL
SW50	EVQ21507K	PUSH SWITCH	1	CPR
SW51	EVQ21507K	PUSH SWITCH	1	CPL
SW51	EVQ21507K	PUSH SWITCH	1	CPR
SW52	EVQ21507K	PUSH SWITCH	1	CPL
SW53	EVQ21507K	PUSH SWITCH	1	CPL
SW54	EVQ21507K	PUSH SWITCH	1	CPL
SW55	EVQ21507K	PUSH SWITCH	1	CPL
SW55	EVQ21507K	PUSH SWITCH	1	CPR
SW56	EVQ21507K	PUSH SWITCH	1	CPL
SW56	EVQ21507K	PUSH SWITCH	1	CPR
SW57	EVQ21507K	PUSH SWITCH	1	CPR
SW58	EVQ21507K	PUSH SWITCH	1	CPR
SW59	EVQ21507K	PUSH SWITCH	1	CPR
SW60	EVQ21507K	PUSH SWITCH	1	CPR
SW61	EVQ21507K	PUSH SWITCH	1	CPR
SW62	EVQ21507K	PUSH SWITCH	1	CPR
SW63	EVQ21507K	PUSH SWITCH	1	CPR
SW64	EVQ21507K	PUSH SWITCH	1	CPR
SW65	EVQ21507K	PUSH SWITCH	1	CPR
SW66	EVQ21507K	PUSH SWITCH	1	CPR
SW67	EVQ21507K	PUSH SWITCH	1	CPR
SW68	EVQ21507K	PUSH SWITCH	1	CPR

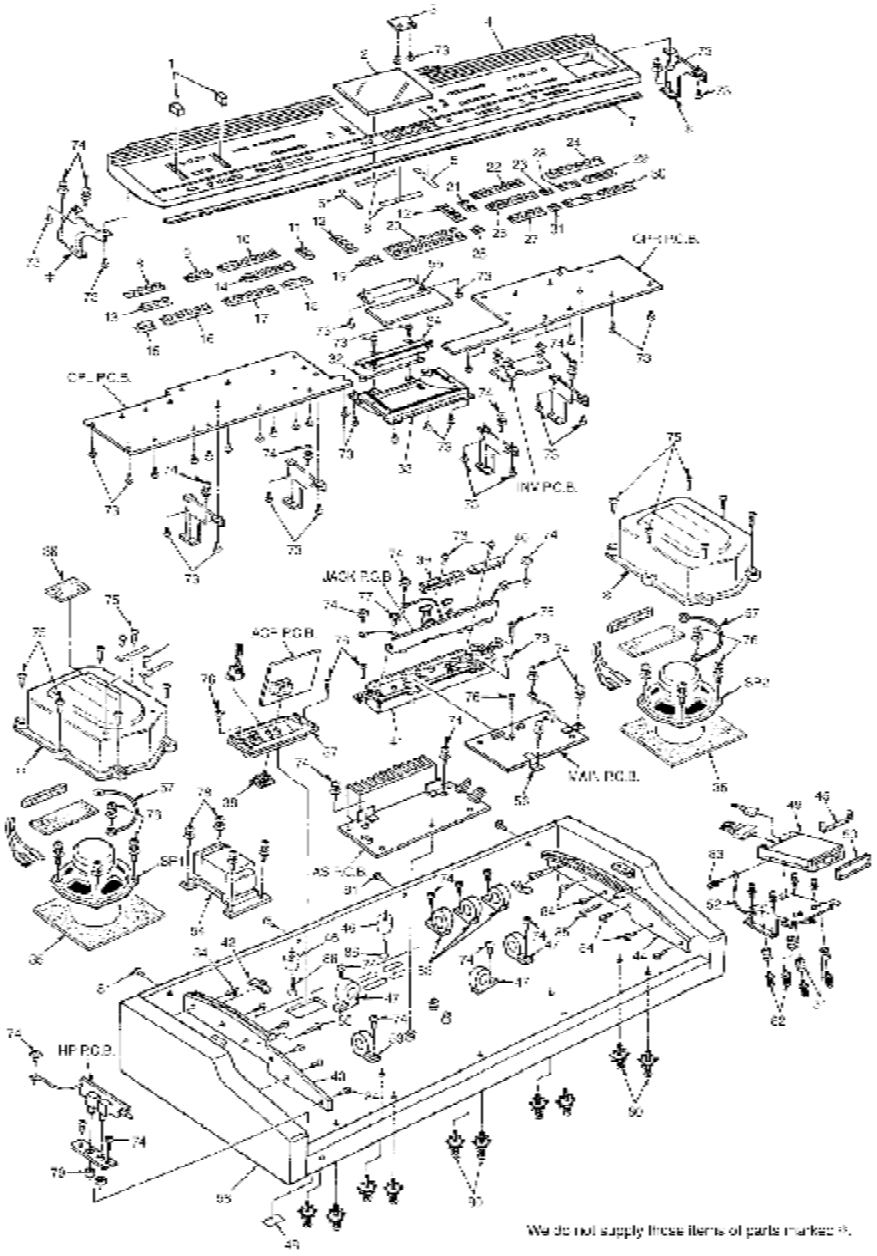
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
SW69	EVQ21507K	PUSH SWITCH	1	CPR
SW70	EVQ21507K	PUSH SWITCH	1	CPR
SW71	EVQ21507K	PUSH SWITCH	1	CPR
SW72	EVQ21507K	PUSH SWITCH	1	CPR
SW1-4	—	SWITCH	4	MKB1*1
SW5-16	—	SWITCH	12	MKB1*1
SW17-28	—	SWITCH	12	MKB1*1
SW29-40	—	SWITCH	12	MKB1*1
SW41-52	—	SWITCH	12	MKB1 MKB2*1
SW53-64	—	SWITCH	12	MKB2*1
SW65-76	—	SWITCH	12	MKB2*1
SW77-88	—	SWITCH	12	MKB2*1
T1	QTDG003A	TRANSFORMER	1	⚠INV
VR1	QRVG25N01B53	5KΩB APC/SEQUENCER	1	CPL
VR2	QRVG25N01B53	5KΩB APC/SEQUENCER	1	CPL
W1	QEXGRA01007L	CONNECTION WITH WIRE	1	JACK2
W1	QEXGRA01007L	CONNECTOR WITH WIRE	1	JACK
W1	QEXGVH03140B	CONNECTOR WITH WIRE	1	
W2	QEXGRA01020E	CONNECTOR WITH WIRE	1	JACK
W2	QEXGSS06130A	CONNECTOR WITH WIRE	1	
W3	QEXGRA01010J	CONNECTOR WITH WIRE	1	JACK
W3	QEXGSS16110A	CONNECTOR WITH WIRE	1	
W4	QEXGVH06110E	CONNECTOR WITH WIRE	1	
W5	QEXGZA05065A	CONNECTOR WITH WIRE	1	
W6	QEXGSS14035A	CONNECTOR WITH WIRE	1	
W7	QEXGSS04010A	CONNECTOR WITH WIRE	1	
W8	QEXGZA34065B	CONNECTOR WITH WIRE	1	
W9	QEXGSS10030A	CONNECTOR WITH WIRE	1	
W10	QEXGSS07030A	CONNECTOR WITH WIRE	1	
W11	QJLG013AA	CONNECTOR WITH WIRE	1	
X1	EFOEC4004T	4MHZ CERAMIC OSCILATOR	1	CPL
X1	EFOEC4004T	4MHZ CERAMIC OSCILATOR	1	CPR
X2	QSXG2F2400A	24MHZ CERAMIC OSCILLATOR	1	MAIN
X101	QSXG1A1128A	Xtal	1	MAIN
X101	QSXG2F2800A	28MHZ CERAMIC OSCILLATOR	1	MAIN
Z1	EXBV8V471J	470Ω × 4	1	MAIN
Z2	EXBS8V101J	100Ω × 4	1	MAIN
Z3	EXBS8V101J	100Ω × 4	1	MAIN
Z4	EXBV8V470J	47Ω × 4	1	MAIN
Z5	EXBV8V470J	47Ω × 4	1	MAIN
Z6	EXBV8V470J	47Ω × 4	1	MAIN
Z7	EXBV8V470J	47Ω × 4	1	MAIN
Z8	EXBV8V470J	47Ω × 4	1	MAIN
Z9	EXBV8V470J	47Ω × 4	1	MAIN
Z10	EXBV8V470J	47Ω × 4	1	MAIN

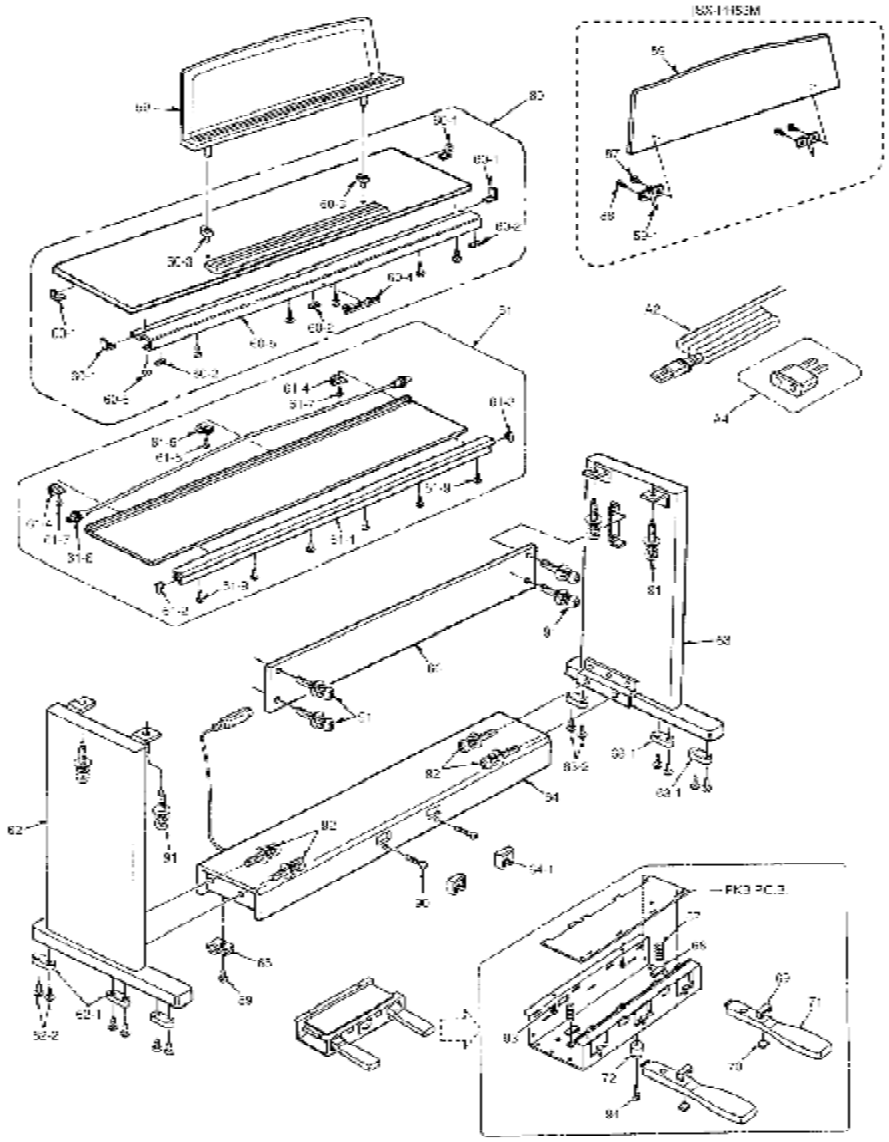
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Z11	EXBV8V470J	47 Ω × 4	1	MAIN
Z12	EXBV8V470J	47 Ω × 4	1	MAIN
Z17	EXBV8V470J	47 Ω × 4	1	MAIN
Z18	EXBV8V470J	47 Ω × 4	1	MAIN
Z19	EXBV8V102J	1K Ω × 4	1	MAIN
Z20	EXBS8V470J	47 Ω × 4	1	MAIN
Z21	EXBS8V470J	47 Ω × 4	1	MAIN
Z22	EXBS8V470J	47 Ω × 4	1	MAIN
Z23	EXBS8V102J	1K Ω × 4	1	MAIN
Z101	EXBS8V221J	220 Ω × 4	1	MAIN
Z102	EXBS8V221J	220 Ω × 4	1	MAIN
Z103	EXBS8V221J	220 Ω × 4	1	MAIN
Z104	EXBV8V472J	4.7K Ω × 4	1	MAIN
Z105	EXBV8V472J	4.7K Ω × 4	1	MAIN
Z106	EXBS8V223J	22K Ω × 4	1	MAIN
Z107	EXBS8V223J	22K Ω × 4	1	MAIN
Z108	EXBV8V221J	220 Ω × 4	1	MAIN
Z109	EXBV8V470J	47 Ω × 4	1	MAIN
Z110	EXBV8V470J	47 Ω × 4	1	MAIN
Z111	EXBV8V470J	47 Ω × 4	1	MAIN
Z112	EXBV8V470J	47 Ω × 4	1	MAIN
Z113	EXBV8V221J	220 Ω × 4	1	MAIN
Z114	EXBV8V221J	220 Ω × 4	1	MAIN
Z115	EXBV8V221J	220 Ω × 4	1	MAIN
Z116	EXBV8V221J	220 Ω × 4	1	MAIN
Z117	EXBV8V221J	220 Ω × 4	1	MAIN
Z118	EXBV8V221J	220 Ω × 4	1	MAIN
Z119	EXBV8V221J	220 Ω × 4	1	MAIN
Z120	EXBV8V221J	220 Ω × 4	1	MAIN
Z121	EXBV8V221J	220 Ω × 4	1	MAIN
Z122	EXBV8V221J	220 Ω × 4	1	MAIN
Z123	EXBV8V221J	220 Ω × 4	1	MAIN
Z124	EXBV8V221J	220 Ω × 4	1	MAIN
Z125	EXBV8V221J	220 Ω × 4	1	MAIN
Z126	EXBV8V221J	220 Ω × 4	1	MAIN
Z127	ERJ6GEYJ221V	220	1	MAIN
Z128	ERJ6GEYJ221V	220	1	MAIN
Z129	ERJ6GEYJ221V	220	1	MAIN
Z130	ERJ6GEYJ221V	220	1	MAIN
ZC2	ECJRVC1H470K	47PF × 4	1	MAIN
ZC3	ECJRVC1H470K	47PF × 4	1	MAIN
ZC101	ECJRVC1H101K	100PF × 4	1	MAIN
ZC101	ECJRVC1H470K	47PF × 4	1	MAIN

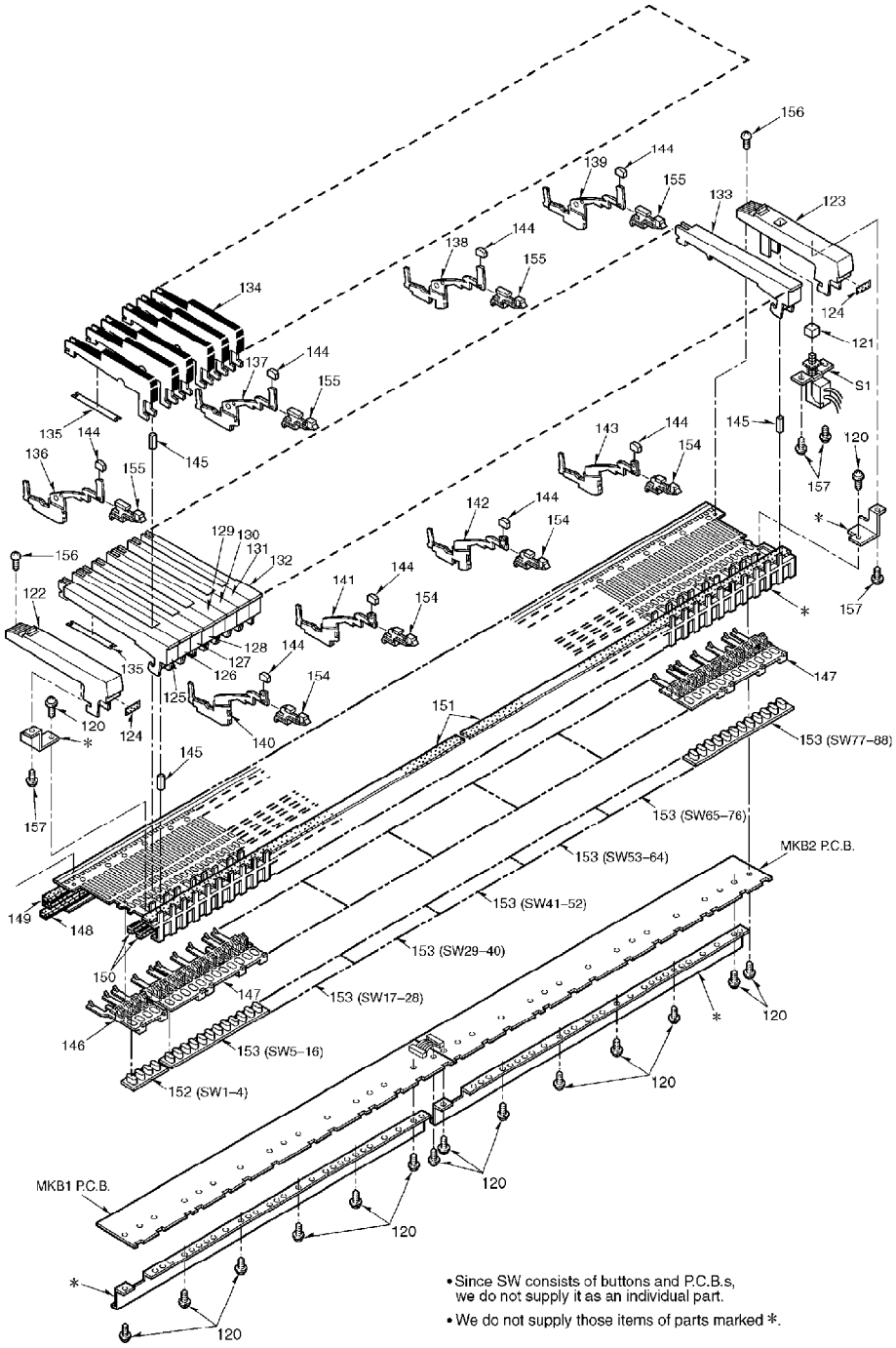
Notes:

***1: Since SW consists of buttons and P.C.B.s, we do not supply it as an individual part (refer to "CABINET PARTS LOCATION " on the next page).**

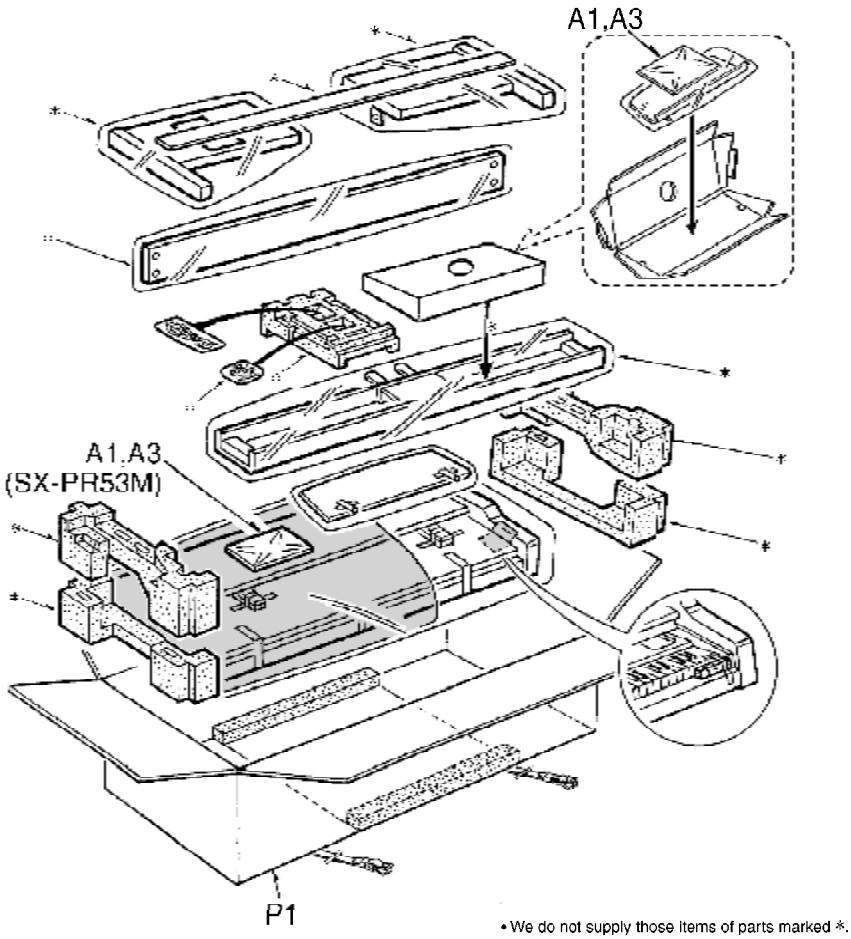
15. CABINET PARTS LOCATION




SX-1115M
PK3 PC3



16. PACKAGING



• We do not supply those items of parts marked *.

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EMID0102005S0

A5

Service Manual

Digital Ensemble

SX-PR53 / SX-PR53M

Area

(P) U.S.A.

(PC) Canada

(PY) Mexico

(EX) Norway, Sweden, Denmark, Finland, Spain, Portugal, South Africa

(EF) France

(EZ) Germany

(EG) Switzerland, Italy, Austria, Holland, Belgium

(EB) the United Kingdom

(GN) Australia, New Zealand

(XS) Malaysia, Singapore

(XT) Taiwan

(X) Columbia, Panama, Chile, Brazil, Philippines, Venezuela, Ecuador

(XA) Argentina

(XD) Saudi Arabia, Hong Kong, Kuwait

Addition of language indication for instruction manuals

This document is supplementary to the following Service Manual.

Model No.	Area Code	Order No.	Brand
SX-PR53 / SX-PR53M	(P, PC, PY, EX, EF, EZ, EG, EB, GN, XS, XT, X, XA, XD)	EMID0006012C0	Technics

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Technics®

1. Replacement Part List

Notes:
***"<IA>"-"<IH>" marks in Remarks indicate languages of instruction manuals. [<IA>: Dansk, <IB>: English, <IC>: English, <ID>: French, <IE>: Germany, <IF>: Italiano, <IG>: Espanol, <IH>: Nederlands, <II>: Chinese]**
***(S) indicate in Remarks columns parts that are supplied by SPC.**

Ref. No.	Part No.	Part Name & Description	Remarks
CABINET PARTS			
A1	QQFGPR53AA	FAN BAG	P<IB>(S)
A1	QQFGPR53BA	FAN BAG	PC<IC><ID>(S)
A1	QQFGPR53CA	FAN BAG	X<IC><IG>(S)
A1	QQFGPR53DA	FAN BAG	XA<IG>(S)
A1	QQFGPR53EA	FAN BAG	XD<IC><II>(S)
A1	QQFGPR53FA	FAN BAG	XT<II>(S)
A1	QQFGPR53GA	FAN BAG	EX<IA><IC><IG>(S)
A1	QQFGPR53HA	FAN BAG	EZ<IE>(S)
A1	QQFGPR53JA	FAN BAG	EB,GN,XS<IC>(S)
A1	QQFGPR53KA	FAN BAG	EG <ID><IE><IF><IH>(S)
A1	QQFGPR53LA	FAN BAG	EF<ID>(S)

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